16–23 October 2013, Düsseldorf, Germany

A guide to the Best of British at K 2013

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British Plastics Federation
BPF House, 6 Bath Place,
London, EC2A 3JE

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## Contents

### Forewords
- **British Plastics Federation**  Peter Davis OBE, Director-General  
  - 4
- **Materials KTN**  Dr Robert Quarshie, Director  
  - 4
- **UK Trade & Investment**  Dan Rutstein, Director, Germany  
  - 5

### List of British Exhibitors  
- List of British exhibitors by Product Code  
  - 6
- Company Listings  
  - 8
- UK Plastics Industry Overview  
  - 10
- Plastics Heritage  
  - 22
- Key Strengths Of UK Plastics Industry  
  - 23
- Creating Value Through Innovation  
  - 24
- Polymer Innovations from the UK  
  - 28
- Plastics in Sport  
  - 32

### Guide To UK Companies

<table>
<thead>
<tr>
<th>Category</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Additives Suppliers</td>
<td>37</td>
</tr>
<tr>
<td>Cellular PVC</td>
<td>37</td>
</tr>
<tr>
<td>Composites</td>
<td>37</td>
</tr>
<tr>
<td>Equipment and IT Solutions</td>
<td>38</td>
</tr>
<tr>
<td>Expanded Polystyrene (EPS)</td>
<td>38</td>
</tr>
<tr>
<td>Flexible Foam Manufacturers</td>
<td>39</td>
</tr>
<tr>
<td>Flexible Foam Converters</td>
<td>39</td>
</tr>
<tr>
<td>Foam (Specialist)</td>
<td>39</td>
</tr>
<tr>
<td>Flooring and Sheet Manufacturers</td>
<td>39</td>
</tr>
<tr>
<td>Injection Moulders</td>
<td>40</td>
</tr>
<tr>
<td>Masterbatch and Technical Compounds</td>
<td>41</td>
</tr>
<tr>
<td>Packaging</td>
<td>42</td>
</tr>
<tr>
<td>Pipes</td>
<td>43</td>
</tr>
<tr>
<td>Polymer Distributors &amp; Compounders</td>
<td>43</td>
</tr>
<tr>
<td>Polymer Producers / Suppliers</td>
<td>44</td>
</tr>
<tr>
<td>Recyclers</td>
<td>44</td>
</tr>
<tr>
<td>Rotational Moulders</td>
<td>45</td>
</tr>
<tr>
<td>Service Providers</td>
<td>46</td>
</tr>
<tr>
<td>Specialist Processors</td>
<td>46</td>
</tr>
<tr>
<td>Testing Houses, Polymer Courses &amp; Universities</td>
<td>46</td>
</tr>
<tr>
<td>Vinyls</td>
<td>46</td>
</tr>
<tr>
<td>Welding And Fabrication</td>
<td>47</td>
</tr>
<tr>
<td>Windows</td>
<td>47</td>
</tr>
</tbody>
</table>

### Matrices of UK Companies

<table>
<thead>
<tr>
<th>Category</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Additives Suppliers</td>
<td>48</td>
</tr>
<tr>
<td>Injection Moulders</td>
<td>49</td>
</tr>
<tr>
<td>Masterbatch and Technical Compounds</td>
<td>51</td>
</tr>
<tr>
<td>Packaging</td>
<td>52</td>
</tr>
<tr>
<td>Polymer Distributors &amp; Compounders</td>
<td>53</td>
</tr>
<tr>
<td>Recyclers</td>
<td>54</td>
</tr>
<tr>
<td>Rotational Moulders</td>
<td>56</td>
</tr>
<tr>
<td>Service Providers</td>
<td>57</td>
</tr>
<tr>
<td>Testing Houses</td>
<td>58</td>
</tr>
<tr>
<td>Polymer Courses &amp; Universities</td>
<td>59</td>
</tr>
</tbody>
</table>
Welcome to K 2013

Foreword from the British Plastics Federation

On behalf of the British Group of exhibitors, managed by the British Plastics Federation (BPF) I am thrilled to welcome you to K 2013. The British Group have a strong presence with a total of 95 companies exhibiting at K 2013, and 29 companies featuring within our two British branded pavilions located in Hall 5 and 12.

This strong British group represents a vast array of products and services from both experienced and new exporters throughout the plastics industry supply chain showcasing the best of British innovation.

The BPF play an important role in the representation of the UK plastics industry on a worldwide scale. The BPF stand in Hall 12 (12/D35) not only raises awareness of the UK as a leader in the manufacturing sector but also that Britain is at the forefront of the plastics industry throughout the entire plastics supply chain. The BPF stand can provide a gateway into British plastics with BPF staff available to provide a plethora of information about the British Plastics industry.

The BPF representation at K2013 is supported by UK Trade & Investment (UKTI) which provided funding to enable us to showcase British innovations and produce this guide. UKTI have also provided an increased level of funding for UK companies to attend this event to help towards the cost of a stand.

The BPF stand will display details of our high profile website (www.bpf.co.uk) which features a directory that demonstrates the extensive scale of the UK plastics industry featuring over 2,300 companies. It also features Plastipedia, the world’s largest online plastics encyclopaedia.

We have also recently launched the BPF shop (www.bpfshop.com) which has an extensive range of plastics publications, and BPF training (www.bpftraining.com) our new e-learning platform for the plastics industry.

We would like to wish you all the best for a successful and enjoyable visit.

Foreword from the Materials KTN

Successful business growth requires transformation of products, processes and organisations. Innovation is the key to achieve these transformations; a key business process that drives success. In 2009, the European Union identified Key Enabling Technologies, such as advanced materials, for their potential impact in strengthening Europe’s industrial base. Over the years, the Materials KTN has worked with UK manufacturing businesses to embrace the development and use of new polymeric materials.

New materials technologies are crucial to sustaining innovation in sectors such as the modern built environment, transport, security, healthcare, sports, energy, electronics and retail. Materials are essential to underpin the technological advancement of most value-adding sectors and responding to the drive for zero waste, low carbon emission and resource efficiency.

The UK has particular strengths in traditional materials such as plastics and rubber, enjoys world-class levels of competence in designing with these materials and also in the newer areas of advanced composites, technical textiles, smart, multi-functional, electronic, natural and bio-compatible polymeric materials. Meanwhile UK research, standards and metrology institutions have a similarly high reputation for their success in the generation of scientific knowledge and understanding across these wide range of materials.

To accelerate economic growth, the Materials KTN help business bring innovative products and services more quickly to market. We bring people together to
share ideas, tackle challenges and make new technological advances. We spot opportunities, help business connect with knowledge and facilities, bring partners together to develop ideas and seek funding to collaboratively de-risk promising innovation projects.

At the Materials KTN we believe that the individual business people, scientists, engineers, technologists and designers we interact with are the greatest asset in our drive to accelerate industrial innovation in the UK. We therefore ensure that networking activities are more purposeful than purely social groupings.

Through funding by the Technology Strategy Board, Research Councils, Framework Programme, the capital market and businesses themselves, the Materials KTN has helped to mobilise academic research in polymers to the benefit of UK businesses.

We are proud to be partners to the British Plastics Federation in the production of this timely book. There are examples of our approach to engaging with the Plastics to create economic value through innovation and networking.
<table>
<thead>
<tr>
<th>Company Name</th>
<th>Hall/Stand</th>
</tr>
</thead>
<tbody>
<tr>
<td>Accraptak Systems Limited</td>
<td>Hall 09/Stand E53</td>
</tr>
<tr>
<td>Addvant Systems Ltd</td>
<td>Hall 09/Stand E53</td>
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<td>Aerogen Company Ltd</td>
<td>Hall 09/Stand E53</td>
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<td>Almo / Addmix</td>
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<td>Hall 09/Stand E53</td>
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<td>Applied Market Information Ltd (AMI Ltd)</td>
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<td>Arto Ltd</td>
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<td>AWP Plastics Ltd (Silvergate Plastics)</td>
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</tr>
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<td>British Plastics Federation - Innovation Projects</td>
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<td>Hall 09/Stand E53</td>
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<td>Hall 09/Stand E53</td>
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<td>Hall 09/Stand E53</td>
</tr>
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<td>Hall 09/Stand E53</td>
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<td>Hall 09/Stand E53</td>
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<td>Hall 09/Stand E53</td>
</tr>
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<td>Hall 09/Stand E53</td>
</tr>
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<td>Hall 09/Stand E53</td>
</tr>
<tr>
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</tr>
<tr>
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<td>Hall 09/Stand E53</td>
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<td>Hall 09/Stand E53</td>
</tr>
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<td>Hall 09/Stand E53</td>
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<td>Pipe Coil Technology Ltd</td>
<td>Hall 09/Stand E53</td>
</tr>
<tr>
<td>Plasmac Ltd</td>
<td>Hall 09/Stand E53</td>
</tr>
<tr>
<td>Plastics Consultancy Network (PCN)</td>
<td>Hall 09/Stand E53</td>
</tr>
<tr>
<td>Plastics in Packaging</td>
<td>Hall 09/Stand E53</td>
</tr>
<tr>
<td>Plastics Machinery Group International Ltd</td>
<td>Hall 09/Stand E53</td>
</tr>
<tr>
<td>Plastics Multimedia Communications Ltd. (Rapid News Communications Group)</td>
<td>Hall 09/Stand E53</td>
</tr>
<tr>
<td>Plastics R&amp;D Projects</td>
<td>Hall 09/Stand E53</td>
</tr>
<tr>
<td>Platts</td>
<td>Hall 09/Stand E53</td>
</tr>
<tr>
<td>Polymer Training and Innovation Centre</td>
<td>Hall 09/Stand E53</td>
</tr>
<tr>
<td>Preco - Europe, Inc.</td>
<td>Hall 09/Stand E53</td>
</tr>
<tr>
<td>Prescott Instruments Ltd.</td>
<td>Hall 09/Stand E53</td>
</tr>
<tr>
<td>Proto Labs Ltd</td>
<td>Hall 09/Stand E53</td>
</tr>
<tr>
<td>Promax Plastics Ltd</td>
<td>Hall 09/Stand E53</td>
</tr>
<tr>
<td>Q-Lab Europe Ltd</td>
<td>Hall 09/Stand E53</td>
</tr>
<tr>
<td>Rapid Plastics Media Ltd (Plastics Multimedia Communications Ltd.)</td>
<td>Hall 09/Stand E53</td>
</tr>
<tr>
<td>Ray-Ran Test Equipment Ltd</td>
<td>Hall 09/Stand E53</td>
</tr>
<tr>
<td>Resin Trade Limited</td>
<td>Hall 09/Stand E53</td>
</tr>
<tr>
<td>Rockwood Pigments (UK) Limited</td>
<td>Hall 09/Stand E53</td>
</tr>
<tr>
<td>Rondol Technology Ltd</td>
<td>Hall 09/Stand E53</td>
</tr>
<tr>
<td>Satake Europe Ltd</td>
<td>Hall 09/Stand E53</td>
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<td>Hall 09/Stand E53</td>
</tr>
<tr>
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<td>Hall 09/Stand E53</td>
</tr>
<tr>
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<td>Hall 09/Stand E53</td>
</tr>
<tr>
<td>Silicone Engineering</td>
<td>Hall 09/Stand E53</td>
</tr>
<tr>
<td>Silvergate Plastics (AWB Plastics Ltd)</td>
<td>Hall 09/Stand E53</td>
</tr>
<tr>
<td>Simpsons (UK) Ltd</td>
<td>Hall 09/Stand E53</td>
</tr>
<tr>
<td>Society of Plastics Engineers</td>
<td>Hall 09/Stand E53</td>
</tr>
<tr>
<td>Stemaco (raw materials) Ltd</td>
<td>Hall 09/Stand E53</td>
</tr>
<tr>
<td>Symphony Environmental Ltd</td>
<td>Hall 09/Stand E53</td>
</tr>
<tr>
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<td>Hall 09/Stand E53</td>
</tr>
<tr>
<td>Techno Calibration</td>
<td>Hall 09/Stand E53</td>
</tr>
<tr>
<td>Tinus Olsen</td>
<td>Hall 09/Stand E53</td>
</tr>
<tr>
<td>Vecoplan Ltd</td>
<td>Hall 09/Stand E53</td>
</tr>
<tr>
<td>Veka Recycling Ltd</td>
<td>Hall 09/Stand E53</td>
</tr>
<tr>
<td>Victron Technology Centre</td>
<td>Hall 09/Stand E53</td>
</tr>
<tr>
<td>Vitasse Group Metzeler Plastics</td>
<td>Hall 09/Stand E53</td>
</tr>
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<td>Xtrutech</td>
<td>Hall 09/Stand E53</td>
</tr>
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<td>Zoteofoams Plc</td>
<td>Hall 09/Stand E53</td>
</tr>
</tbody>
</table>
For more information on the British Group go to www.bpf.co.uk
## Group 1  Raw Materials, Auxiliaries

| 01.01 THERMOPLASTICS | | 01.05 RUBBERS | | 01.08 ADHESIVES AND GLUES |
|-----------------------|-----------------|-----------------|-----------------|
| Addivant UK. Ltd      | Hall 06 / E24   | Arto Chemicals Limited | Hall 05 / E38   |
| AGC Chemicals Europe Ltd. | Hall 07a / C10 | Fothergill Coated Fabrics Ltd. | Hall 07.1 / E04 |
| Arto Chemicals Limited | Hall 05 / E38   | Silicone Engineering Limited | Hall 07.1 / B01 |
| AWB Plastics Ltd t/a Silvergate Plastics | Hall 05 / B40 | Stemaco (Raw Materials) Ltd. | Hall 06 / D50   |
| C L Rye Trading Ltd   | Hall 05 / A27   |                |                |
| Colloids Limited      | Hall 08a / D01  |                |                |
| Colour Tone Masterbatch Ltd. | Hall 05 / A41 |                |                |
| Fothergill Coated Fabrics Ltd. | Hall 07.1 / E04 |                |                |
| Hubron (International) Ltd. | Hall 05 / B34 |                |                |
| Huntsman              | Hall 08b / F79  |                |                |
| Invista               | Hall 08b / F47  |                |                |
| Luxus Ltd             | Hall 05 / A45   |                |                |
| Michael Ballance Plastics Limited | Hall 05 / A31 |                |                |
| Perrite               | Hall 05 / A29   |                |                |
| VEKA Recycling Ltd    | Hall 07 / 7.1C15|                |                |

| 01.02 THERMOPLASTIC ELASTOMERS | | 01.09 ADDITIVES | | 01.10 ADDITIVES |
|-----------------------------|-----------------|-----------------|-----------------|
| Elasto UK Ltd               | Hall 08a / H18  |                |                |
| Huntsman                    | Hall 08b / F79  |                |                |
| Michael Ballance Plastics Limited | Hall 05 / A31 |                |                |
| Stemaco (Raw Materials) Ltd. | Hall 06 / D50  |                |                |

<table>
<thead>
<tr>
<th>01.03 RESINS AND COMPOUNDS</th>
<th></th>
<th>01.13 STARTING MATERIALS, INTERMEDIATE POLYMERISATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Addivant Uk. Ltd</td>
<td>Hall 06 / E24</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>01.04 FOAMS AND INTERMEDIARIES</th>
<th></th>
<th>01.14 STARTING MATERIALS, INTERMEDIATE POLYMERISATION</th>
</tr>
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<tbody>
<tr>
<td>AGC Chemicals Europe Ltd.</td>
<td>Hall 07a / C10</td>
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</tr>
<tr>
<td>Zotefoams Plc.</td>
<td>Hall 05 / A32</td>
<td></td>
</tr>
</tbody>
</table>

## Group 2  Plastics Products and Processing

<table>
<thead>
<tr>
<th>02.01 PROCESSING TECHNOLOGIES</th>
<th></th>
<th>02.04 PRODUCT GROUPS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Brett Martin Ltd.</td>
<td>Hall 08a / C31</td>
<td></td>
</tr>
<tr>
<td>Flambeau Europlast Ltd</td>
<td>Hall 07.2 / A20</td>
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<tr>
<td>Fothergill Coated Fabrics Ltd.</td>
<td>Hall 07.1 / E04</td>
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<td>Huntsman</td>
<td>Hall 08b / F79</td>
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<td>Presto - Europe, Inc.</td>
<td>Hall 11 / H26</td>
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<td>Silicone Engineering Limited</td>
<td>Hall 07.1 / B01</td>
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</tr>
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<td>Vitasheet Group Metzeler Plastics GmbH</td>
<td>Hall 08a / F26</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>02.03 SUPPLYING</th>
<th>02.05 PRODUCTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Brett Martin Ltd.</td>
<td>Hall 08a / C31</td>
</tr>
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<td>Fothergill Coated Fabrics Ltd.</td>
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</tr>
<tr>
<td>Vitasheet Group Metzeler Plastics GmbH</td>
<td>Hall 08a / F26</td>
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</tbody>
</table>

## List of British exhibitors by product code
Group 3  Machinery and Equipment for the plastics and rubber industries

03.01 MACHINERY & EQUIPMENT FOR PREPROCESSING & RECYCLING
Accrapak Systems Limited  Hall 09 / E53
Bühler Sortex Ltd.  Hall 10 / E54
Carter Mixers  Hall 11 / B44
Eriez Magnetics Europe Ltd.  Hall 11 / E18
Maguire Europe Sales Limited  Hall 10 / A26
Munchy  Hall 16 / A21
Plasmac Ltd.  Hall 10 / J30
Plastics Machinery Group International Ltd.  Hall 05 / B36
Protomax Plastics Ltd Trading Edge  Hall 05 / A35
Vecoplan Ltd  Hall 9 / Stand B59

03.02 MACHINERY FOR PLANT AND PROCESSING
Barwell Global Ltd  Hall 11 / B48
Boston Matthews Machinery Ltd  Hall 16 / A21
Carter Mixers  Hall 11 / B44
Hawkes Technical Ltd.  Hall 03 / A05
Pan Stone Europe Ltd  Hall 13 / D39
Peter Gillard & Co. Limited  Hall 15 / C60
Plastics Machinery Group International Ltd.  Hall 05 / B36
Preco - Europe, Inc.  Hall 11 / H26
Protomax Plastics Ltd Trading Edge  Hall 05 / A35
XTRUTECH Ltd.  Hall 16 / E70

03.03 POST PROCESSING MACHINERY
ALS Limited  Hall 03 / G20
Ashe Converting Equipment Ltd.  Hall 03 / B54
Atlas Converting Equipment Ltd.  Hall 03 / B91
Boston Matthews Machinery Ltd  Hall 16 / A21
FORMECH INTERNATIONAL LTD.  Hall 03 / F46
Hawkes Technical Ltd.  Hall 03 / A05
MSA Engineering Systems Limited  Hall 12 / D43
Perforation Machinery Ltd  Hall 03 / E24
Peter Gillard & Co. Limited  Hall 15 / C60
Plastics Machinery Group International Ltd.  Hall 05 / B36
Preco - Europe, Inc.  Hall 11 / H26
TITAN ATLAS Converting Equipment Ltd.  Hall 03 / B91

03.04 MACHINERY AND PLANT FOR FINISHING, DECORATING
Bobst Manchester Ltd (formerly General Vacuum Equipment Ltd)  Hall 04 / A55

J.M. Heaford Ltd  Hall 04 / A45
Meech International Ltd  Hall 11 / B60

03.05 WELDING MACHINES
Preco - Europe, Inc.  Hall 11 / H26

03.06 MOULDS AND DIES
Progressive Components  Hall 01 / E36

03.07 INTEGRATED AUTOMATION
Atlas Converting Equipment Ltd.  Hall 03 / B91
Bühler Sortex Ltd.  Hall 10 / E54
CCS Technology Limited  Hall 05 / A33
Maguire Europe Sales Limited  Hall 10 / A26
Peter Gillard & Co. Limited  Hall 15 / C60
Satake Europe Ltd  Hall 11 / C44
TITAN ATLAS Converting Equipment Ltd.  Hall 03 / B91

03.08 ANCILLARY EQUIPMENT
Eriez Magnetics Europe Ltd.  Hall 11 / E18
Lectroheat Industrial Heating Ltd  Hall 12 / E50
Meech International Ltd  Hall 11 / B60
The Aerogen Co. Ltd.  Hall 11 / E64

03.09 MEASURING AND TEST EQUIPMENT
Lloyd Instruments Ltd.  Hall 10 / D51
NDC Infrared Engineering Ltd.  Hall 10 / H42
Prescott Instruments Ltd.  Hall 11 / B48
Q-Lab Europe Ltd.  Hall 10 / D50
Ray-Ran Test Equipment Ltd.  Hall 11 / B30
Systech Instruments Ltd.  Hall 10 / G13
Tinius Olsen Ltd.  Hall 11 / A11

03.10 PARTS AND COMPONENTS
Cooper Technology  Hall 12 / D35
Lectroheat Industrial Heating Ltd  Hall 12 / E50
Peter Gillard & Co. Limited  Hall 15 / C60
XTRUTECH Ltd.  Hall 16 / E70

Group 4  Services for the plastics and rubber industries

04.01 COMPUTER SOFTWARE SERVICES
Impact Solutions  Hall 12 / D35

04.02 PROFESSIONAL LITERATURE
Applied Market Information Ltd.  Hall 07 / C11
Applied Market Information Ltd.  Hall EN / 03
PLATTS  Hall 07.1 / C30
Sayers Publishing Group Ltd.
Plastics in Packaging  Hall 11 / F48

04.03 TRADE ASSOCIATIONS
British Plastics Federation  Hall 12 / D35

04.06 SCIENCE AND CONSULTING
Impact Solutions  Hall 12 / D35
Listgrove Limited  Hall 12 / D35
PCN Plastics Consultancy Network  Hall 12 / D35
Systech Instruments Ltd.  Hall 10 / G13
A Guide to the Best of British at K2013

Accrapak Systems Limited
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We are specialists in Strand Pelletisers and make models from laboratory to production machines. In the laboratory range 3 different strand pelletiser models are offered with production rates from 10kg to 80kg per hour. For “Masterbatch” producers we make a range of easy clean pelletisers with production rates from 50kg to 1000kg. For general compounders we offer heavy duty range with rates from 1000kg to 5000kg per hour.
www.accrapak.co.uk
ADDRESS Unit 57, Burtonwood Ind. Centre, WAS 4HX Warrington, Cheshire, UK
TEL +44 1925 222926
FAX +44 1925 220137
EMAIL enquiries@accrapak.co.uk

Advivant UK. Ltd
Hall 06 / Stand E24
Our products include mail Granulates, Impact modifier, Maleic resin, Rubber to Metal Bonding Agents or Primers and Bonding Agents for Rubber to Metal (bonding agent or adhesive systems), Additive concentrates, Ageing stabilizers, Amine accelerator, Amine sterically hindered, Antioxidants, Accelerators, Biostabilisers, Chelators, Inhibitors, Light stabilisers (s. UV stabilizers), Metal deactivators, Inhibitors, Quencher, Impact modifiers, Stabilizers, UV stabilizer.
www.advivant.com
ADDRESS Tenax Road, Trafford Park, M17 TWT Manchester, UK
TEL +44 161 8722323
FAX +44 161 8723160
EMAIL sergio.palumbo@advivant.com

Aerogen Company Ltd
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Aerogen specialise in the design and manufacture of flame treatment systems. Flame treatment serves the purpose of improving a substrates surface adhesion characteristics to make it more receptive to a coating.
www.aerogen.co.uk

AGC Chemicals Europe Ltd
Hall 7a / Stand C10
AGC Chemicals Europe, Ltd. is part of AGC Group, leading producers of fluoropolymers. Our products are used in wire and cable insulation and on the exterior of stadia such as the Allianz Arena in Munich and the Pernambuco Arena in Brazil.
www.agcc.com
ADDRESS PO Box 4, Hill House International Business Park, Thornton Cleveleys, Lancashire FY5 4QD, UK
TEL +44(0)1253861826
FAX +44(0)1253861950
EMAIL info@agcc.com

Almo / Addmix
Hall 5 / Stand B42
Almo / Addmix have manufactures to the plastic moulding industry for 30 years. The companies supplies aluminium moulds, dosing equipment, for repeatable special effect and special effect masterbatch equipment. The special effect is used by injection moulding, blow moulding and extrusion moulding.
www.addmix.co.uk
ADDRESS 150B Coles Green Road, Staples Corner, London, NW2 7JL, UK
TEL +44(0)2034904693
EMAIL sales@almo.uk.com

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Automatic Roll/Log Slitting Machines. Our roll slitters are designed to accurately slit logs of film, protection tape, foil, PVC, graphite, rubber, foam, polyester, non wovens and textiles, BPC, cork, technical tapes, pressure sensitive tapes etc.

Applied Market Information Ltd (AMI Ltd)
Hall 07 / Stand C11
AMI is a leading global market research consultancy providing research, consulting and analytical services to the world’s plastics industry. AMI is a major publisher of both commercial and technical information for the plastics industry and organises a series of conferences and seminars providing an outstanding range of opportunities for business networking.
www.amiplastics.com
ADDRESS AMI House, 45-47 Stokes Croft, BS1 3Q Bristol, UK
TEL +44 117 9249442
FAX +44 117 9892128
EMAIL mjw@amiplastics.com

Arto Chemicals Ltd
Hall 5 / Stand E38
Established in 1972, we specialise in the distribution and international trade of plastic polymers (engineering & commodity grades) and synthetic rubber. We handle all qualities: regrind, reprocessed, offgrade and prime. We can provide price comparisons for alternative or specified grades.
www.artochemicals.com
ADDRESS Arto House, London Road, Binfield, Bracknell, Berkshire RG42 4BU, UK
TEL +44(0)1344860737
FAX +44(0)1344860820
EMAIL sales@artochemicals.com

ASHE Converting Equipment
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**www.barwell.com**

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**Hall 08b / Stand E62**

Our Techne Industrial Fluidised Baths are renowned to clean extrusion tooling quickly and cost effectively without the risk of damaging to the tools. We have a wide variety of bath sizes to suit most budgets and can also supply accessories to remove fumes when the plastics are burnt off. echne IFB's have been supplied to 100's of plastic manufacturers across the globe but have a particularly strong presence in the US and UK.

**www.techne-calibration.com**

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An impressive range of plastic sheets in Polycarbonate, PVC, aPET, PET, Foam PVC and Acrylic with extensive options for roofing, glazing, cladding, fabrication, and, print and display applications.

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**British Plastics Federation**

**Hall 12 / Stand D35**

British Plastics Federation (BPF) is the leading trade association of the UK Plastics Industry, representing over 400 members including material suppliers, polymer producers, recycling and machinery manufacturers.

**www.bpf.co.uk**

**BPF - Innovation Projects**

**Hall 12 / Stand D35**

BPF - Innovation Projects manages a number of valuable research and development activities in key areas to support BPF Members’ manufacturing interests, master new techniques and reduce their environmental footprint. focal areas include waste minimisation and recycling, energy efficient manufacture and plastics packaging.

**www.innovationinplastics.com**

**Boston Matthews**

**Hall 16 / Stand A21**

Boston Matthews design and manufacture complete turn-key extrusion lines, extruders and downstream equipment.

**www.bostonmatthews.co.uk**
Bühler Sortex Ltd.

**Hall 10 / Stand E54**

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London, UK
**TEL** +44 20 70557777
**FAX** +44 20 70557700
**EMAIL** sortexsales@buhlergroup.com

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Bunting Magnetics Europe Ltd

**Hall 10 / Stand C11**

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**www.buntingeurope.com**

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**TEL** +44(0)1442 875081
**EMAIL** Sales@buntingeurope.com

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Carter Brothers (Rochdale) Ltd

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**www.cb-mixing.com**

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**TEL** +44(0)1706638301
**FAX** +44(0)1706526569
**EMAIL** joannek@cb-mixing.com

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Chemical Innovations Limited

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**FAX** +44(0)1772315853
**EMAIL** sales@CILBOND.com

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C L Rye Trading Ltd

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International plastic recycling company purchasing and selling throughout Europe, The Middle East and The Far East. We offer a wealth of experience gained with over 40 years of plastic recycling. Processes include shredding, granulation, compounding, washing and drying.

**www.clryetradingltd.co.uk**

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**TEL** +44(0)1702476486
**FAX** +44(0)1702476884
**EMAIL** leonrye@clryetradingltd.co.uk

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ColorMatrix

**Hall 8a / Stand J13**

ColorMatrix is a leading global innovator of liquid color and additives for plastics. These advanced technologies are engineered to improve the aesthetics, sustainability, performance and processing of plastic products.

**www.colormatrix.com**

**ADDRESS** Unity Grove, Knowsley Business Park, Knowsley, Merseyside L34 9GT, UK
**TEL** +44(0)1516328800
**FAX** +44(0)1516328807
**EMAIL** infoEMEA@colormatrix.com

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Colourtone Masterbatch Ltd

**Hall 5 / Stand A41**

Innovative independent manufacturer of masterbatch, with a reputation for supplying quality, technical products with a high level of service. Manufacturer of the globally patented Vynacol product that makes self colouring PVCu as easy as any other polymer.

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**ADDRESS** Pant Glas Farm Industrial Estate, Newport Road, bedwas, Mid. Glamorgan CF83 8YE, UK
**TEL** +44(0)2920888910
**FAX** +44(0)2920868487
**EMAIL** email@colourtone-masterbatch.co.uk

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Cooper Technology

**Hall 12 / Stand D35**

Cooper Technology supply a range of high end plasticizing unit components including screws, bimetallic cylinders, screw tip assemblies and nozzles. Our particular expertise is in the design of components to improve product quality, productivity and wear life.

**www.coopertech.com**

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**TEL** +44(0)2891271372
**FAX** +44(0)2891275871
**EMAIL** neil@coopertech.com

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**EMAIL** infoEMEA@colormatrix.com

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**www.colourtone-masterbatch.co.uk**

**ADDRESS** Pant Glas Farm Industrial Estate, Newport Road, bedwas, Mid. Glamorgan CF83 8YE, UK
**TEL** +44(0)2920888910
**FAX** +44(0)2920868487
**EMAIL** email@colourtone-masterbatch.co.uk

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**www.coopertech.com**

**ADDRESS** 6 Fifth Avenue, Bangor, Co Down BT20 5JP, UK
**TEL** +44(0)2891271372
**FAX** +44(0)2891275871
**EMAIL** neil@coopertech.com
Corona Supplies Ltd
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Manufacturer of corona treatment equipment and supplier of Sherman Treater products and spares. Corona Supplies is made up of ex-Sherman employees, including technical and production specialists, who offer a wealth of corona industry experience, years of product expertise.
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Croda Europe Ltd
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Croda Polymer Additives - Croda specialises in additives for surface modification of plastics including friction reduction, anti-static and anti-fogging. Our Crodamide™ and Atmer™ product lines play a vital role in modern packaging, from optimising polymer processing to improving part performance.
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ELASTO UK
Hall 8 / Stand H16
ELASTO is a leader in the development of custom formulated Thermoplastic Elastomers (TPE). Our comprehensive portfolio includes TPS, TPO and TPV technologies. We support OEMs, moulders and designers in the medical, electronic, automotive, caps & closures, construction and consumer markets.
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ELASTO Carbon Fibre Ltd.
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www.elgcarbonfibre.com

Eriez Europe
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Eriez is a world leader in the development and manufacture of metal separation and detection equipment, enabling processors to remove and detect ferrous and nonferrous material. Eriez product portfolio includes separation equipment, vibratory feeders, metal detection equipment and sampling systems.
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Euro Exim Ltd
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Flambeau Europe Ltd
Hall 7.2 / Stand A26
We have the skills and expertise to design and mould our own products using both injection and blow moulding technologies, complemented by contract manufacturing of a variety of consumer packaged products.
www.flambeau.co.uk

Formech International Ltd
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Formech, a company with 30 years’ experience in delivering cost effective vacuum forming solutions to education, prototyping, packaging, and sign making sectors will be showcasing a range of machines with live demonstrations from manual desktop to fully automated designs.
www.formech.com

Flambeau Europlast
Hall 7.2 / Stand A26
www.euroeximlimited.co.uk

Fothergill Coated Fabrics Ltd
Hall 7.1 / Stand E04
Manufacturers of PTFE coated fabrics, tapes and conveyor belts, glass fabrics, rubber compounds and rubber coated fabrics.
www.f-c-f.co.uk

For more information on the British Group go to www.bpf.co.uk
Hubron International Ltd
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EMAIL sales@hubron.com

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TEL +44(0)1740608246
EMAIL pigments_info@huntsman.com

ICIS
Hall 8a / Stand C20
ICIS is a leading market intelligence provider for the global plastics and rubber markets. Buyers and sellers make confident business decisions based on our trusted pricing data, high-value news, price forecasts, market studies, supply/demand data and consulting services.

www.icis.com
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Impact Solutions
Hall 12 / Stand D35
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FAX +44(0)1324489633
EMAIL info@impact-solutions.co.uk

Intouch Monitoring Limited
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Development, supply and support of software systems for real-time production monitoring, reporting and planning. Connected directly to all of your machines, Intouch greatly enhances visibility and control in your manufacturing operation. The monitoring system will optimise machine utilisation, improve efficiency and productivity, reduce down time, expensive scrap and costs.

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TEL +44 1604 646144
EMAIL enquiries@intouchmonitoring.com

Invista Engineering Polymers
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INVISTA is the world’s largest producer of PA66 polymer and owner of the TORZEN® brand of nylon engineering polymers. With a variety of polymer grades, compounding capabilities, design assistance, and other value-added services, INVISTA can help engineers realize new designs and approaches to plastic molding that previously were not possible.

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TEL +44 1452 633000
FAX +44 1452 633-111
EMAIL intermediates@invista.com

J M Heaford Ltd
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www.jmheaford.com
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Keystone is a global leader in dyes, pigments, and optical brighteners for colouring plastics and polymers. The Keyplast™ line also includes FDA compliant dyes, fluorescent dyes, optical brighteners, and granite special effect colourants. We are available globally to service you.

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**TEL** +44(0)1484341466

**FAX** +44(0)1484341544

**EMAIL** sales@keystone-europe.co.uk

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**Lacerta Technology Limited**

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Lacerta Technology Ltd. offer a unique range of products, under the identiPol name, that work alongside the manufacturing line to check plastic identity and consistency. These cost effective identiPol products give you peace of mind that the plastic material entering the production line is of sufficient quality and similarity to previous batches. We encourage delegates to bring their plastic samples and problems to us for evaluation during the show where we will have working identiPol units on our Stand.

[www.lacerta-technology.com](http://www.lacerta-technology.com)

**ADDRESS**

No 3 The Courtyard, Main Street, Keyworth, Nottinghamshire, NG12 5AW, UK

**TEL** +44 115 937 5555

**FAX** +44 115 937 6581

**EMAIL** enquiries@lacerta-technology.com

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**Listgrove Recruitment**

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Established for 38 years, Listgrove is a leading niche provider of recruitment, executive search and human resource services to plastics/polymer companies on a UK and International basis. We offer retained assignments, contingency recruitment, outplacement & HR services and psychometric testing.

[www.listgrove.com](http://www.listgrove.com)

**ADDRESS**

16 The Courtyard, Timothy’s Bridge Road, Stratford upon Avon, Warwickshire CV37 9NP, UK

**TEL** +44(0)1789207070

**FAX** +44(0)1789207096

**EMAIL** airenelle.charrai@listgrove.co.uk

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**Lloyd Instruments Ltd**

**Hall 10 / Stand D51**

Lloyd Instruments is a world-leading manufacturer of innovative materials testing machines and software, including the Davenport™ range of polymer test equipment and Chatillon force gauges.

[www.lloyd-instruments.com](http://www.lloyd-instruments.com)

**ADDRESS**

Steyning Way, Bognor Regis, West Sussex, PO22 9ST, UK

**TEL** +44(0)1243833370

**FAX** +44(0)1243833401

**EMAIL** uk-far.general@ametek.co.uk

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**Longfield - Polymers**

**Hall 5 / Stand SB32**

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[www.longchem.co.uk](http://www.longchem.co.uk)

**ADDRESS**

Weaver House, Ashville Point, Sutton Weaver, Cheshire WA7 3FW, UK

**TEL** +44(0)1928712900

**FAX** +44(0)1928551912

**EMAIL** K2013@longchem.co.uk

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**Luxus Ltd**

**Hall 05 / Stand A45**

Luxus is one of the UK’s leading technical plastics recycling and compounding companies. It uses ‘state of the art’ technologies to deliver highly specified thermoplastic compounds based on recycled and prime feedstocks. Our Technical Centre created in 1982 offers polymer development, testing and analysis services. Luxus considers itself the originator of the ‘art, science and technology’ of sustainable plastics recycling and is the strategic partner of choice for major global blue chip clients.

[www.luxus.co.uk](http://www.luxus.co.uk)

**ADDRESS**

Fairfield Industrial Estate, LN11 0LQ, Louth, Lincolnshire, UK

**TEL** +44 1507 604941

**EMAIL** info@luxus.co.uk

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**Maguire Europe Sales Limited**

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A global technology leader in material management systems for plastics molding, extrusion, and compounding. The company manufactures: Gravimetric blenders, Granulators, Liquid color pumps, Volumetric auger feeders, Vacuum dryers, Venturi loaders, Resin dryers, Controllers, Level sensing, alarm systems, Networking software.

[www.maguire.com](http://www.maguire.com)

**ADDRESS**

Unit F, Vanguard, Tame Park, B77 5DY Tamworth, Staffordshire, UK

**TEL** +44 1827 265850

**FAX** +44 1827 265855

**EMAIL** info@maguire-europe.com

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For more information on the British Group go to [www.bpf.co.uk](http://www.bpf.co.uk)
Meech International
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Meech International operates globally and offers an impressive portfolio of static control and cleaning systems that are designed to enable customers to improve their production processes and profitability.

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Fax +44 (0) 1993 776 977
Email sales@meech.com

Munchy
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Fax +44(0)190576101
Email sales@bostonmatthews.co.uk

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www.ballance-plastics.co.uk

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Tel +44 1283 711 512
Fax +44 1283 711 202
Email sales@ballance-plastics.co.uk

Munchy
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Munchy design and manufacture complete recycling systems for plastics.

www.munchy.co.uk

Address Navigation Road, Diggles, Winchester, Westmorland WR5 3DE, UK
Tel +44(0)1905763100
Fax +44(0)190576101
Email sales@bostonmatthews.co.uk

NDC Infrared Engineering
Hall 10 / Stand H42
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Tel +44(0)1621 852244
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**EMAIL** Vanessa.emberson@Satake Europe

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[www.sevseas.com](http://www.sevseas.com)

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**TEL** +44(0)208 861 3435

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**EMAIL** chandan@sevseas.com

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**EMAIL** Yamini.Chitalgia@rohagroup.com

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Society of Plastics Engineers

**Hall 11 / Stand E21**

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[www.4spe.org](http://www.4spe.org)

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FAX +44 208 6641-636

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The UK plastics manufacturing sector is large and it constitutes an important UK economic strength. It has an annual sales turnover of over £19 billion. Sales in the UK plastics industry account for 2.1% of UK GDP and 7% of UK manufacturing activity, greater than the automotive and pharmaceutical industries combined.

There are some 7500 firms engaged in the plastics industry of which about 3000 are ‘primary processors’, that is companies engaged in the melt processing of plastics raw materials and in the production of semi-finished or finished goods.

The industry has a long and complex supply chain stretching from the producers of plastics raw materials and additives to the end-user (customer industries). Different product groups, for example automotive components and retail packaging, have markedly different supply chains. A simplified pattern of industry inter-relationships is illustrated in the following schematic diagram.

It is estimated that the UK produces approximately 2.5 million tonnes of plastics raw materials annually. Supporting the big names in UK polymer manufacture, for example Ineos, DuPont, LyondellBasell and Sabic, are a range of specialist materials, masterbatch and additives manufacturers, all helping to push the uses of plastics to their technological limits.

With the UK’s plastics processors consuming 4.8 million tonnes of material the UK remains one of the top five processors of plastics in the EU. The processors are at the heart of the industry providing the vital nexus between raw material suppliers designers, toolmakers, customers and the processors’ own unique blend of engineering skills.

About 180,000 people are employed in the UK plastics industry. This is more than pharmaceutical, oil and gas, nuclear, videogame and film industries combined. The raw material production component of the sector is capital-intensive and the large bulk of personnel are employed in plastics processing which, despite being increasingly automated, is still relatively people-intensive due to the many individual tasks which need to be accomplished in sectors such as insert and assembly work.
Plastics Heritage

Plastics is part of the UK's DNA and at critical points in the history of the global industry major breakthroughs occurred in the UK.

The ‘Mac’
One of the notable forerunners of plastics was patented in June 1823 by Charles Macintosh from Glasgow. His process involved using a solution of India-rubber in naphtha soaked between two layers of cloth which formed a sandwich that was pressed together. The rubber interior provided a layer impermeable to water but also still flexible. With this invention the ‘Mac’ was born. It was a breakthrough in innovation and spurred the manufacture of rubber goods including rubber shoes and cushions.

Gutta-Percha
As a further advance towards plastics, in 1850 the world’s first submarine telegraph cable made from gutta-percha was laid between Dover and Calais. Gutta-percha was an inelastic substance based on a special type of latex, extracted from trees from the Far East, that had been introduced to Britain eight years earlier by Dr William Montgomerie.

‘Parkesine’, the first commercial plastic
In 1862, arguably, the commercial plastics industry was born with the invention of ‘Parkesine’ by Alexander Parkes. This invention was the first man-made plastic. It was created from cellulose that, once heated, was able to be moulded but also retained its shape after cooling. It became commercially known after it was displayed at the Great International Exhibition in London.

Polyethylene
1933 is arguably the most important year for plastics innovation. In March of that year British scientists Reginald Gibson and Eric Fawcett set up an experiment at ICI in which a mixture of ethylene and benzaldehyde was heated to 170 degrees centigrade. As a result, a new substance was discovered – polyethylene. A few months later, the British Plastics Federation was founded, showing that the newly born commercial plastics industry was taking shape and had come of age.

From PET to PEEK and beyond
In 1941, polyethylene terephthalate (PET) was discovered in the research laboratories of the Calico Printers’ Association by British chemists Jon Rex Whinfield and James Tennant Dickson.

Over the years numerous innovations and new material developments would come out of the UK including PEEK and Biopol, a pioneering bio based material.

The constantly evolving plastics industry will continue to enable key technological advances throughout the 21st century. The UK will continue to maintain its position at the forefront of this rapidly changing and fast paced industry, paving the way for the inventors of the future which will continue to transform our industry and our world.

For more information on the UK plastics industry and it’s contribution to the development of key materials visit www.plastipedia.co.uk
Key Strengths of UK Plastics Industry

The UK has a formidable position in the global plastics industry stage. Its strengths are:

The local availability of raw materials and their feedstocks
The chemical building blocks from which plastics raw materials are made are largely derived from oil and gas. The UK is a significant oil and gas producer. The UK government is encouraging further oil exploration in the North Sea and has announced a favourable tax regime for the development of shale gas deposits elsewhere in the UK. Additionally the UK’s rich and varied geology helps to provide a wide range of additives, specialist materials, compounds and masterbatch to enhance the development and performance of plastics products manufactured in the UK.

A strong pre-existing industrial base
Key pre-existing raw materials were readily substitutable by plastics. For example the West Midlands engineering industry gradually abandoned metals in favour of plastics and the textiles industry in Lancashire and Yorkshire gradually steered away from cotton and wool towards products based on nylon, polyester and polyvinyl chloride. This process continues and the paper industry has now begun to convert to plastics, with the publishing industry moving to electronic books.

A strong indigenous chemicals industry
The chemicals and plastics industry in the UK are closely interlinked and represent a supply chain which is a national economic strength. This business activity in the UK finds a unity in the plastics industry. Indeed the plastic sector accounts for approximately 7.5% of the UK demand for chemicals.

A commitment to Innovation
The plastics processing sector in the UK is renowned for innovation both in terms of product design and process development. It was the UK which created the commercial plastics industry in the 19th Century and which discovered polyethylene in 1933. Now, the most widely used plastics material in the world.

In addition to the native creativity within the industry the sector is supported by first-rate academic institutions which specialise in materials science or polymer engineering and these include Bradford, Napier (Edinburgh), Loughborough, Leeds, London Metropolitan and Queen’s Belfast Universities.

Leadership in innovation is provided by the Technology Strategy Board which is responsible to the UK Government’s Department for Business Innovation and Skills (BIS). This has created sophisticated ‘Knowledge Transfer Networks’ which are very easy to access and free of charge for most fields of industrial knowledge. They ensure cooperation between universities and private companies on research and development and they marshall and communicate the sum of knowledge available. To access the Material KTN Polymer Sector visit www.connect.innovateuk.org

Access to a world class design industry
The industry is able to harness the talents of the world class UK design sector where organisations like Central Saint Martins College of Art and Design in London are internationally renowned. Industrial design in plastics in the UK is also encouraged by the BPF’s Horner’s Award for Plastics Innovation and Design. This is the oldest known award in the plastics industry and has been competed for annually by leading plastics designers since 1947. www.hornersaward.co.uk

The Horners are also working to ensure a constant flow through of design talent to the UK plastics industry through its organisation of the Student Design Awards: www.designinnovationplastics.org

relentless attention paid to continuous improvement
As a leading example of how the UK plastics industry is constantly raising the bar of achievement, the annual Plastics Industry Awards recognise excellence in most branches of attainment, such as in training initiatives, environmental performance, energy saving and product design. Visit www.plasticsawards.com

An extremely easy supply chain to access
The British Plastics Federation
The UK plastics industry is highly accessible. The whole sector is coordinated by its single leading trade association, the British Plastics Federation. The BPF itself is a one stop shop as it
The BPF Buyers’ Guides

unites under one umbrella all the different branches of the industry. The best initial point of contact with the industry is through the medium of the BPF’s website (www.bpf.co.uk) which contains an Industry Directory (www.bpf.co.uk/directory.aspx) which signposts viewers to those companies in the industry which can fulfill their precise requirements.

Companies wishing to engage with the plastics industry on an international forum can do so at www.plastbook.com which is the first online, dedicate network for the plastics industry.

Companies can also download a collection of ‘Buyers Guides’ on the UK plastics industry at www.bpfbuyersguides.co.uk

You can make contact with the BPF through it’s international trade fair participation as it regularly exhibits at major global plastics industry exhibitions such as ‘K’ (Dusseldorf, Germany), Chinaplas (Guangzhou, China), Plastindia (Delhi, India), Plastivision (Mumbai, India), Arabplast (Dubai, UAE), Plasteurasia (Istanbul, Turkey) and Interplastica (Moscow, Russian Federation).

The BPF also organises a series of market based seminars which explain the key developments in each of the sub sectors of the industry. For a programme of upcoming events see www.bpfevents.co.uk

UK Plastics Industry Trade Press

The UK has a strong and well developed trade press which provides a daily commentary on the competencies of the UK plastics industry. The leading journals are:

- Plastics and Rubber Weekly
  www.prw.com
- British Plastics and Rubber
  www.britishplastics.co.uk

UK Plastics Industry Exhibitions

Two major exhibitions provide an opportunity for overseas customers to make contact with the UK plastics industry.

- Interplas http://www.britishplasticsshow.com held every 3 years at the National Exhibition Centre, Birmingham, UK.
- Plastics Design and Moulding (PDM) http://www.pdmevent.com/ currently held annually at the Telford International Centre, Telford, UK.

Consultants who can help you

If you need additional help in developing a product which uses UK plastics industry expertise, or if you want more help in sourcing a particular product then you might need consultancy advice, available from a number of competent sources in the UK. A wide range of expertise is available in the BPF’s Plastics Consultancy Network www.pcn.org

Expertise in sustainable manufacture

No country understands how sustainability applies to plastics materials as deeply as the UK. The industry has a strong tradition of positive dialogue with balanced environmental organisations such as Forum for the Future (www.forumforthefuture.org), the Natural Step (www.thenaturalstep.org), and the National Non Food Crops Centre (www.nnfcc.co.uk). A guide to the expertise available on the sustainable manufacturing of plastics in the UK is available at www.sustainablemanufacturing.co.uk. This also signposts the vibrant plastics recycling sector in the UK.

Energy efficiency is a specialism of the UK plastics industry, partly prompted by a Climate Change Agreement entered into by the British Plastics Federation and UK Government’s Department of Energy and Climate Change (DECC). This has been responsible for the generation of considerable information about how to
reduce energy consumption in plastics processing and this has led to considerable savings.

The UK is a global leader in all branches of resource efficiency including optimising raw material usage, minimising the application of energy, using recycled materials and the responsible treatment of plastics products throughout their entire lifecycle.

**Clear strategic leadership of supply chains**

For industries of strategic importance to the UK, the UK Government is exercising leadership to ensure that sectors are organised to deliver exactly what overseas customers require. This is very apparent, for example, in the automotive sector where the Government has set up an Automotive Council. See www.automotivecouncil.co.uk/

**Strong UK Government Support**

UK Trade & Investment (UKT&I) facilitates contact with UK manufacturing sectors and individual companies. If you wish to do business with a UK company or invest in the UK. It has commercial posts in most countries of the world and to help you locate one near to you please visit www.ukti.gov.uk/export

**Strengths in Key Sectors**

The industry is a key innovator worldwide. The three core sectors that make up the plastics industry are:

- **Automotive**
  - The automotive sector in the UK is one of the largest in the world with over 1.5 million cars being produced per annum. Investment in R&D in Automotive is huge with £1.3 billion being spent on it in 2010. A major shift towards a low carbon economy will see an estimated £150 billion being invested in low and ultra-low carbon vehicle technologies over the next 20 years. Plastics is set to play a huge role in this shift.

- **Construction**
  - Over 20% of plastics materials are used in construction applications in the UK. The concept of sustainable construction is well developed here and UK plastics products have achieved the highest ratings in the BRE’s ‘Green Guide to Specification’ and they lead the way in helping to achieve the aims of UK Government’s groundbreaking ‘Code for Sustainable Homes’.

- **Packaging**
  - The packaging sector which accounts for over a third of polymer consumption in the UK is driven by the needs and desires of the world’s most sophisticated retail sector which includes such retail giants as Tesco, Sainsbury’s and Marks & Spencer. Packaging remains a strong area of growth with innovations in PET and other materials pushing the boundaries of usage with ready meals and smart packaging creating new opportunities.

**Plastics Consumption in the UK by application**
Creating value through innovation

The capacity to absorb and exploit knowledge defines the ability of a business to create value from innovation; turning knowledge into profitable goods and services. It is a commonly held view that Europe's inability to speedily transform its excellent scientific research into commercial success is due to the lack of sufficient capacity to transform knowledge into products and services.

The UK plastics industry is well aware of the key technological/societal challenges which are the drivers of innovation and competitive actions world-wide. Being the home to a number of world-class companies whose success depends on their development and use of advanced materials, the UK continues to ensure that ongoing investment in materials science and technology translates into innovation and wealth creation by UK businesses. Making choices between different technologies is both challenging and complex. The Materials Knowledge Transfer Network (Materials KTN) and the Technology Strategy Board, through the implementation of its advanced materials strategy, has been helping UK companies and researchers choose wisely.

For the open innovation system to work, the UK also provides a number of publicly funded support infrastructures, which include, the 'knowledge infrastructure' of universities and research institutes; the 'innovation information infrastructure' consisting of such organisations as the National Physical Laboratory (NPL), the Intellectual Property Office (IPO), the British Standards Institution (BSI); and the 'pre-production infrastructure' consisting of Catapults and Innovation and Knowledge Centres (IKCs).

Knowledge Sharing and Business Collaboration

The innovation system in the UK has a very strong science base, financial and venture capital markets, and high international integration. Innovating companies are increasingly partnering to share risks and costs, find complementary expertise, gain rapid access to different technologies and knowledge, and thus collaborate as part of networks spread across several sectors. The importance of both explicit and tacit knowledge to the innovation process is core to the activities of the Materials KTN, working together with the plastics industry.

In helping to create a culture for innovation and a market for knowledge, the KTN facilitates the free flow of researchers, ideas and technologies in an open environment to enable a better and stronger collaboration between industry and academics.

Businesses must often step outside their own boundaries in seeking to solve innovation-related problems. The knowledge network for the plastics industry includes universities, research institutes, product designers, investors and industry players. Sharing knowledge is seen as the basis for further invention and business improvement whilst giving businesses incentives to invest and to innovate.

UK Polymer Research

Research on polymers has traditionally been of a high academic standard in the UK. Business innovation is supported by research in specialty polymers, for instance related to aerospace, racing and niche vehicles, biomedical, pharmaceutical and optoelectronic applications, as well as research on polymers for mass applications. The latter brings important innovation to small and medium enterprises (SMEs) which traditionally focus on polymer processing and specialised applications, e.g. in packaging of solid and liquid goods, lightweight components in high volume vehicles, structural components for the building industry and advanced formulations for the coatings industry.

The UK shows particular strengths in advanced composites for aircraft and racing cars to reduce weight, reduce emissions and lower fuel bills, as well as smart polymeric materials for healthcare, sports applications and fashion. Organic (plastic) Electronics is an area in which the UK holds worldwide leadership. Many aspects of modelling and simulation of materials properties and performance are fundamental to UK research groups and are finding worldwide acceptance. There are major central science and research facilities that give the UK materials science and engineering community a lead in underpinning innovation-led research. Among these centres ISIS, Diamond and a further group of university-based centres for specialised analytical/characterisation instrumentation play a special role in polymer and coatings developments and contribute visibly to the international competitiveness of UK innovation.

Connecting with Product Design

Innovating with polymers goes much further than supporting and strengthening scientific research and development. When the UK's reputation as a world-class player in measurement science, modelling, characterisation and understanding of materials is combined with the country's excellent product design capability, the combination provides a world-class cocktail of innovative opportunities for the plastics industry.

Through the Materials KTN's design initiatives, we are helping to equip young designers and polymer scientists with many vital skills and attitudes for innovation. By bringing multidisciplinary teams from across materials science, technology, design and the arts to tackle a problem together, the innovation process is accelerated.

Funding Support

The UK offers wide-ranging programmes and tools, each with different strengths, to support businesses on their innovation journey. Funding ranges from support for small proof-of-concept grants and feasibility studies through to large multi-partner collaborative R&D and demonstration projects. All types of businesses qualify for support, ranging from prestart-up, start-up and early stage micro businesses, to large multi-nationals. There are different funding models available depending on the specific needs of companies, sectors and technologies. There is a supportive route also for UK businesses to access European support for innovation and technology development.

There is an increasing emphasis on addressing the need for closer integration of the research phase with the pre-production phase through the establishment of Innovation and Knowledge Centres (IKCs) and Catapults. These are physical centres designed to advance innovation in specific fields. They offer shared space, facilities and entrepreneurial environment in which researchers and business can work side-by-side on commercial applications of emerging research.

Dr. Robert Quarshie
www.materialsktn.net
Polymer innovations from the UK

CASE STUDY

Shock-absorbing ballet shoes

Some advanced polymers can be soft and flexible when treated gently, but become stiff and protective on impact. Such materials are ideal for impact protection clothing for sport and other uses, such as the ballet pointe shoe. The life of the professional ballerina has traditionally been a trade-off between grace on stage and excruciating foot pain. The points of traditional shoes are made from an inflexible papier-mâché mixture, which quickly goes from being too tough to disintegrating. With the help of the Materials KTN, a new high-technology shoe has been developed based on a shock-absorbing polymer that hardens on impact to cushion the foot. The demand for this special polymer came from Olympic athletes’ need for flexibility and control, without compromising on protection.
CASE STUDY

Plastics Blood

Researchers at the University of Sheffield developed an artificial blood made of plastic molecules that have an iron atom at their core, exactly like haemoglobin. The substance can carry oxygen through the body but it does not require to be kept in cool, which means it can be kept for longer.

The plastic blood is light to carry and would prove especially useful in war zones and emergency situations where blood is needed quickly. It is believed that the artificial blood will be cheap to make once the prototype is developed to be suitable for biological testing.

Dr Lance Twyman, from the Department of Chemistry at the University of Sheffield and who has been developing the artificial blood, said: “We are very excited about the potential for this product and about the fact that this could save lives. Many people die from superficial wounds when they are trapped in an accident or are injured on the battlefield and can’t get blood before they get to hospital. This product can be stored a lot more easily than blood, meaning large quantities could be carried easily by ambulances and the armed forces.”

CASE STUDY

Polymer gel batteries

Scientists at the University of Leeds have invented a new type of polymer gel which can be used to make batteries. The material could replace the traditional liquid electrodes used in rechargeable batteries and the manufacturing process is fast and cost efficient. With a flexibility of shape it can be formed as a thin film and promises use in various electronics applications such as mobile phones or laptops.

Professor Ian Ward who developed the polymer gel says: “The polymer gel looks like a solid film, but it actually contains about 70% liquid electrolyte. It’s made using the same principles as making a jelly: you add lots of hot water to ‘gelatine’ - in this case there is a polymer and electrolyte mix - and as it cools it sets to form a solid but flexible mass.”

The process developed by Professor Ward called extrusion/lamination places the gel between an anode and cathode at high speed to create a great conductor, which is ultra thin but also durable.
Polymer innovations from the UK

CASE STUDY

Solar cells as spray paint – a bright development

Scientists of the University of Sheffield’s Department of Physics and Astronomy working together with University of Cambridge have developed a new way of making solar cells and applying as a spray paint. “Spray coating is currently used to apply paint to cars and in graphic printing. We have shown that it can also be used to make solar cells using specially designed plastic semiconductors. Maybe in the future surfaces on buildings and even car roofs will routinely generate electricity with these materials” said Professor David Lidzey from the University of Sheffield.

It is hoped that the new innovative method will help reduce the cost of manufacturing the solar cells and make it more affordable and accessible. It would help generate power for those in developing countries and wider the audience of the solar cells use. It could potentially be sprayed on top of car roofs and on uneven surfaces.

The current solar cell manufacturing uses energy intensive materials, such as silicone and tools which require a lot of energy to operate. With the spray paint solar cells according to Prof. Lidzey “the goal is to reduce the amount of energy and money required to make a solar cell. This means that we need solar cell materials that have low embodied energy, but we also need manufacturing processes that are efficient, reliable and consume less energy.” Plastic requires less energy to manufacture plus by spray coating of the solar cells the production process overall is less energy intensive.

CASE STUDY

Graphene – a “wonder material”

Cambridge University is a home to a Graphene Centre, where a team of dedicated scientists are working on a material which is hoped to revolutionise the future of electronics, healthcare and many more industries. Graphene is a one-atom thick layer of graphite which is very strong but also lightweight and flexible. It is a great transparent conductor which in fact enables electrons to flow faster than silicon and which promises a huge potential to electronics industry.

The research centre is working on bringing the material to the industry. Director of the centre, Professor Andrea Ferrari, said: “We are now in the second phase of graphene research (...) we are targeting applications and manufacturing processes, and broadening research to other two-dimensional materials and hybrid systems. The integration of these new materials could bring a new dimension to future technologies, creating faster, thinner, stronger, more flexible broadband devices.” Professor Sir Leszek Borysiewicz, Vice-Chancellor of the University of Cambridge, adds: “Graphene’s potential is beyond doubt (...) The pioneering work of Cambridge engineers and scientists in fields such as carbon nanotechnology and flexible electronics, coupled with our record working with industry and launching spin-out firms based on our research, means that we are in a unique position to take graphene to that next level.”

It is believed that the technology will allow new possibilities for nanomaterials, built layer by layer, which could lead to use in a vast range of future applications. One of the uses could be as an energy storage for electric vehicles or energy storage for personal devices such as mobile phones, MP3 players and touchpads.

ADDRESS
University of Sheffield, Firth Court, Western Bank, Sheffield. S10 2TN
TEL +44 (0)114 222 9852
FAX +44 (0)114 222 8890
WEB www.sheffield.ac.uk

ADDRESS
University of Cambridge, The Old Schools, Trinity Lane, Cambridge CB2 1TN
WEB www.cam.ac.uk
Polymer helps with bone healing

Researchers at Edinburgh and Southampton universities developed a polymer to help in bone healing process. In structure similar to scaffold, the polymer is attached to the bone’s marrow allowing blood to flow through easily and the body to grow new stem cells and heal quicker.

The scientists had to come up with the right material which is lightweight but also strong and which will degrade in time, allowing the bone to grow in the right place.

“We are confident that this material could soon be helping to improve the quality of life for patients with severe bone injuries, and will help maintain the health of an aging population,” said Professor Mark Bradley of the University of Edinburgh’s School of Chemistry.

Root Canal Treatment

DRFP Ltd based in Sheffield which provides dental equipment approached University of Bradford to develop a modern replacement for the traditional natural rubber fillers fill root canal cavities. The current fillers are shaped like a toothpick, which are pressed into place to fill the cavities but as the rubber doesn’t always fill the area completely, DRFP Ltd came up with the concept of the ‘Smartseal’ system: using a bespoke polymer core, to which a coating could be applied that would expand on contact with water until all of the cavity was filled.

Because the polymer had to show up on x-ray, it needed to contain a ceramic powder, but this then made it difficult to produce to the small sizes required by dental practitioners and hard to ensure consistency in the production.

At first, DRFP Ltd were struggling to find anyone to help them with this technology, until they contacted the Centre for Polymer Micro and Nano Moulding at the University of Bradford. “Because the ceramic powder turned the polymer from a liquid to a paste, it stopped flowing evenly,” says Technical Manager, Dr Ben Whiteside. “The powder’s particle size needed to be correct for the polymer mixture to flow properly and we had the nanotechnology expertise to get it right.”

The University also worked with DRFP Ltd to develop the correct injection tool to ensure the moulding process worked in full scale manufacturing. “It required very specialised injection moulding techniques,” said DRFP Operations Manager, Dr Paul Holden. “Dr Whiteside’s team were able to develop a technique that could reliably create the right geometry for the core and ensure they had the correct mechanical properties.”

Smartseal began manufacture in Sheffield in 2007 and has been used successfully by dentists all over the country. The relationship between the company and University is still going strong, with R&D staff from DRFP regularly using the equipment in the Centre for Micro and Nano Moulding to further refine and actually manufacture the product using our injection moulding equipment.
Plastics in sport

Plastics in Sport – The Contribution of UK manufacturers

Plastics underpinned the staging of the London Olympic Games in 2012 and it is time to celebrate the role that UK manufacturers of plastics products played in the success of the event. The plastics products supplied, in particular those made from PVC had to meet challenging sustainability criteria. UK manufacturers derived invaluable experience through their involvement and are ready to use this in the service of any future sporting event, Olympic or otherwise.

Plastics products were ubiquitous in the London Olympic Park, not just in the sports equipment and clothing but also in the infrastructure such as the stadia housing spectators, in the sanitation and in the catering arrangements. They also had a big role to play in the transportation and communications facilities.

Sports Equipment

Plastics has enabled a progressive lightweighting of sports equipment which has helped athletes to achieve improved performances. Examples include the transformation of early twentieth century tennis rackets from heavier wood to those now made from relatively lighter plastics composites. Likewise both the craft and oars used in rowing have progressed from wood to plastics composites. This facilitates the safe physical manoeuvrability of the equipment.

Additionally the design freedom available with plastics has facilitated sleek designs, reducing, for example, wind resistance and providing improved performances.

Infrastructure

Plastics products facilitate the safe enjoyment of major sporting events. Comfortable, ergonomically optimum seating, roofing to protect spectators from the elements and the provision of drinks and meals are all features made possible by plastics. They were extensively used in the external and internal structures of the stadia, swimming arenas and venues hosting the Olympics event with some 140,000 square metres of PVC used in flooring, roofing and other building areas.

Plastics are durable, re-usable and recyclable and constitute an essential component of any sustainability programme attached to a sporting event. PVC products have the backing of the Vinyl Plus initiative undertaken by Europe’s PVC manufacturers which has received the recognition of the European Commission and is a partner in the United Nations Environmental Programme. One of the key advantages of plastics is that they are materials of low conductivity and hence save energy.

Clothing and gear

Plastics products are widely used for sports clothing. Again they offer the advantages of durability and are difficult to tear. They are also waterproof and can be designed to minimise the wind resistance of an athlete’s body. They can also be easily coloured and decorated to ease recognition by spectators and sports officials. The impact resistance of plastics make them ideal materials for the manufacture of safety helmets.
CASE STUDY

The lightest footwear for fast running

When Nike and Pelé Sports faced the challenge of designing footwear, which is lighter than others available on the market, but also offering good temperature resistance, Zotefoams plc turned out to be the perfect answer for their needs.

Zotefoams is a UK manufacturer and the world’s leading supplier of closed-cell cross-linked block foams for a variety of applications such as packaging, automotive, construction, medical and sports. Zotefoams developed a special foam for midsoles and insoles for footwear application, called PebaxFoam®, which is five times lighter than EVA foam and provides a higher temperature resistance. Such a specification enables athletes to run faster due to the better energy return offered by PebaxFoam®.

Zotefoams’s products are used in many sport applications including protective pads, helmet liners, mats, swimming aids, back protectors, and for other parts of the shoe. Their specialised properties and performance characteristics make foams the natural choice for many different uses.

PebaxFoam® is the registered trademark of Arkema.

ADDRESS
Zotefoams PLC, 675 Mitcham Road, Croydon, Surrey, CR9 3AL, UK
TEL +44 (0) 20 8664 1600
FAX +44 (0) 20 8664 1616
EMAIL info@zotefoams.com
WEB www.zotefoams.com

CASE STUDY

Jabulani

“Jabulani” football developed for an outstanding World Cup performance

The football World Cup held in South Africa in 2010 featured a brand new and improved adidas ball developed by engineers and scientists at Loughborough University to give maximum performance. The construction of the ball comprises eight 3-D spherically moulded panels which are thermally bonded together. These panels are made of EVA and TPU which are moulded together to deliver a perfectly round shape. The unique “Grip’n’Groove” profile of the ball delivers a stable flight and a perfect grip in any weather conditions.

The ball’s aero grooves round the entire surface have been added to the design and along with its improved texture for accurate grip make it the most stable and accurate adidas ball ever.

“I am delighted that Loughborough University have again been asked by adidas to assist them in the development of such a high profile product. It reflects the high esteem that Sports Technology at Loughborough is held in and allows our research to have real impact on the South Africa World Cup”, said Dr Andy Harland, from Loughborough University’s Sports Technology Institute.

The University’s test facilities allowed checking the product’s development in a wind tunnel, amongst many other tests, to confirm comparative results together with the adidas football laboratory. It has not been their first football development with Loughborough University, which had also helped develop the 2008 European Championship and 2006 World Cup balls.

ADDRESS
Loughborough University, Leicestershire, LE11 3TU, UK
TEL +44 (0)1509 263171
WEB www.lboro.ac.uk
Polypipe, the UK’s largest plastic piping systems manufacturer, made a significant contribution to the construction of the London 2012 stadia and buildings, including the Olympic Stadium, Velodrome and Athletes Village.

Working with the various stakeholders from an early stage, Polypipe supplied almost one million metres of plastic pipe and over two million fittings to the Olympic Park.

Polypipe supplied a number of product systems for a variety of applications across the Olympic build, including six different systems for the Athletes Village alone. In particular, its renowned Terrain above ground soil and waste drainage systems were used by all of the major projects on the Park, and several innovative products were developed specifically for the project.

One such innovation is Terrain Firetrap firesleeves, which achieved a never-seen-before 4-hour fire protection for above ground plastic drainage systems; developed to meet the demands of the Athletes Village.

Adam Turk, Polypipe Terrain’s Commercial Director, said: “Polypipe is extremely proud of the role it has played in the delivery of London 2012 projects. The opening ceremony highlighted the UK’s fantastic manufacturing heritage to the world, and in turn the British construction industry showed its ability to deliver these landmark projects on time and within budget, while continuously pushing the boundaries in sustainable construction.”

Polypipe’s contribution to London 2012 has previously been recognised by the ODA’s ‘Learning Legacy: Lessons Learned from the London 2012 Games Construction’ report, and as part of the Plastics for Gold Exhibition at the Museum of Design in Plastics (MoDiP), which formed part of the Cultural Olympiad, celebrating plastic’s contribution. Its products were recently displayed as part of the Building Centre’s ‘We Made 2012’ exhibition, which was designed to showcase the very best work from the companies that helped to create London 2012 stadia and infrastructure.
CASE STUDY

Safe and sustainable Altro flooring for the Olympic 2012 Games

A UK manufacturer Altro, was the only PVC manufacturer of safety flooring and hygienic wall cladding approved for use at the Games. Supplying over 50,000 square metres of flooring to 33 different London Olympic venues. The supplier had to prove to the Olympic Delivery Authority (ODA) that their flooring complied with their Policy for the supply of PVC into the London 2012 Olympic and Paralympic Games. Kevin Webb from Altro said: “The vision of the Olympic Development Authority (ODA) was to create the most sustainable Olympic Games in history, consequently, the criteria to become an approved supplier were extremely robust.” After four years of communication with the London Organizing Committee Olympic Games and Paralympic Games (LOCOG) Altro was granted the lifetime opportunity to be part of the most sustainable games up to date, London 2012.

A total of 15 different products were delivered to the venues meeting specific criteria, for example the temporary structures of the games were laid with Altro XpressLayTM which is the first ever adhesive-free safety flooring easy to remove and either re-use or recycle after the event. In the more heavy traffic locations such as McDonalds at the Olympic site, which was the largest restaurant of the chain ever constructed, a non-slip and hardwearing and even sound absorbent Altro Stronghold TM floor was offered.

As Altro XpressLay is loose laid instead of bonded to the subfloor with an adhesive like a conventional safety flooring, it is also possible to re-use it in a different location and benefit different users. One of the recipients of some of the Altro XpressLay with such a prestigious history was St. John’s Primary School in Kent, UK. Sally Quirk, Head Teacher at St John’s Primary School said “The installation has changed the school beyond recognition and has given the pupils the opportunity to tread the same floor as the Olympians trod, which is so inspirational for them.”

TEL +44 (0) 1462 489516
EMAIL enquiries@altro.com
WEB www.altro.co.uk
CASE STUDY

Tarkett flooring in sport venues

Outdoor and indoor sport venues require specialised and sophisticated flooring, artificial turf and other surfaces for the high performance of the athletes. Tarkett is a leading global supplier of sport surface solutions ranging from football, rugby, tennis, hockey, running tracks, basketball, handball, table tennis, multifunction gymnasium floors, squash courts, fitness rooms, and floor protection.

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<td><a href="mailto:email.ian.king@chemtura.com">email.ian.king@chemtura.com</a></td>
<td><a href="http://www.chemtura.com">www.chemtura.com</a></td>
</tr>
<tr>
<td>ColorMatrix Europe Ltd.</td>
<td>+44 (0)151 632 8800</td>
<td>info@<a href="mailto:EMEA@colormatrix.co.uk">EMEA@colormatrix.co.uk</a></td>
<td><a href="http://www.colormatrix.com">www.colormatrix.com</a></td>
</tr>
<tr>
<td>Colloids Ltd</td>
<td>+44 (0)151 545 9222</td>
<td><a href="mailto:sales@colloids.co.uk">sales@colloids.co.uk</a></td>
<td><a href="http://www.colloids.co.uk">www.colloids.co.uk</a></td>
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<tr>
<td>Dow Chemical Co. Ltd</td>
<td>+44 (0)1276 654 400</td>
<td><a href="mailto:goughbridge@dow.com">goughbridge@dow.com</a></td>
<td><a href="http://www.dow.com">www.dow.com</a></td>
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<tr>
<td>Eastman Company UK Ltd</td>
<td>+44 (0)151 547 2002</td>
<td><a href="mailto:sales@eastman.com">sales@eastman.com</a></td>
<td><a href="http://www.eastman.com">www.eastman.com</a></td>
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<tr>
<td>eChem Ltd</td>
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<td><a href="http://www.echem.co.uk">www.echem.co.uk</a></td>
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<td><a href="http://www.bcecellular.com">www.bcecellular.com</a></td>
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<td><a href="mailto:info@celuplus.co.uk">info@celuplus.co.uk</a></td>
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<td>Forbes Group</td>
<td>+44 (0)1366 389600</td>
<td><a href="mailto:info@forbesgroup.co.uk">info@forbesgroup.co.uk</a></td>
<td><a href="http://www.forbesgroup.co.uk">www.forbesgroup.co.uk</a></td>
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<tr>
<td>MB Plastics Limited</td>
<td>+44 (0)1265 822811</td>
<td><a href="mailto:info@mbplastics.co.uk">info@mbplastics.co.uk</a></td>
<td><a href="http://www.mbplastics.co.uk">www.mbplastics.co.uk</a></td>
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<tr>
<td>Hygrade Industrial Plastics Ltd</td>
<td>+44 (0)1788 571316</td>
<td><a href="mailto:info@hygradeplastics.com">info@hygradeplastics.com</a></td>
<td><a href="http://www.hygradeplastics.com">www.hygradeplastics.com</a></td>
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<tr>
<td>Plasticon UK</td>
<td>+44 (0)1828 862194</td>
<td><a href="mailto:sales@plasticont.com">sales@plasticont.com</a></td>
<td><a href="http://www.plasticont.com">www.plasticont.com</a></td>
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<tr>
<td>Llewellyn Ryland Ltd</td>
<td>+44 (0)121 440 2284</td>
<td><a href="mailto:info@llewellyn-ryland.co.uk">info@llewellyn-ryland.co.uk</a></td>
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### CELLULAR PVC

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<td>Eurocell Profiles Ltd.</td>
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<td><a href="mailto:info@eurocell.co.uk">info@eurocell.co.uk</a></td>
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TEL: +44(0)1773 835721
FAX: +44(0)1773 835563
EMAIL: uk@recticel.co.uk
WEB: www.recticel.co.uk

**Vitafoam Ltd**
TEL: +44(0)161 655 2663
FAX: +44(0)161 655 3198
EMAIL: info@vitafoam.co.uk
WEB: www.vitafoam.co.uk

**FLOORING AND SHEET MANUFACTURERS**

**Altro Floors**
TEL: +44(0)1462 480480
FAX: +44(0)1462 480410
EMAIL: gcle@altro.co.uk
WEB: www.altro.co.uk

**Fenner PLC**
TEL: +44(0)1482 626500
FAX: +44(0)1482 626532
EMAIL: paul.sexton@fenner.com
WEB: www.fenner.com

**Palram UK**
TEL: +44(0)1302 380 780
FAX: +44(0)1302 380 788
EMAIL: lan.Wilson@palram.com
WEB: www.palram.com

**Polyflor Ltd**
TEL: +44(0)161 767 1111
FAX: +44(0)161 767 1188
EMAIL: sjames@polyflor.com
WEB: www.polyflor.com

**TransXL Ltd**
Suppliers of quality used plastics processing machinery
TEL: +44(0)1793 827666
FAX: +44(0)1793 823826
EMAIL: twrighton@transxl.co.uk
EMAIL: sales@transxl.co.uk
WEB: www.transxl.co.uk

**Waste Web Ltd**
Platform for online waste trading environment
TEL: +44(0)(0)117 230 9191
FAX: +44(0)7770 441 641
EMAIL: jonathan.saunders@wasteweb.co.uk
EMAIL: sales@wasteweb.co.uk
WEB: www.wasteweb.co.uk

**Xtrutech Ltd**
Supplier of screw, barrels, engineers & process optimisation for twin screwcompounders
TEL: +44(0)117 230 9191
FAX: +44(0)7770 441 641
EMAIL: jonathan.saunders@wasteweb.co.uk
EMAIL: sales@wasteweb.co.uk
WEB: www.wasteweb.co.uk

**For more information on the British Group go to www.bpf.co.uk**
INJECTION MOULDERS

See p49 & 50 for matrix

AAC Plastics Group Ltd
TEL +44(0)18 275 1999
FAX +44(0)14 8471 0613
EMAIL info@aacplasticsgroup.co.uk
WEB www.aacplasticsgroup.co.uk

Adresco Ltd
TEL +44(0)19 0837 4144
FAX +44(0)19 0864 3270
EMAIL info@adresco.co.uk
WWW.ADRESCO.CO.UK

Aeroplasts (UK) Ltd
TEL +44(0)121 522 3000
FAX +44(0)121 522 3333
EMAIL sales@aeroplasts.net
WEB www.aeroplasts.net

AgentDraw Ltd
TEL +44(0)116 284 1386
FAX +44(0)116 286 7507
EMAIL info@agentdraw.co.uk
WEB www.agentdraw.co.uk

A K Industries Ltd
TEL +44(0)1432 375 100
FAX +44(0)1432 263 532
EMAIL sales@aki.co.uk
WEB www.aki.co.uk

Algram Group Ltd
TEL +44(0)1752 342 388
FAX +44(0)1752 342 482
EMAIL sales@algram.com
WEB www.algram.com

ASG Amaray (Dubois Ltd)
TEL +44(0)1536 263 653
FAX +44(0)1536 274 899
EMAIL amarysales@uk.agimedia.com
WEB www.amaray.com

Avalon Plastics Ltd
TEL +44(0)18 473 5000
FAX +44(0)18 473 3181
EMAIL keithbh@avalonplastics.co.uk
WEB www.avalonplastics.co.uk

Bemis Ltd
TEL +44(0)1282 483 717
FAX +44(0)1282 412 717
EMAIL seats@bemisoureurope.com
WEB www.bemisoureurope.com

Big Bear Plastic Products Ltd
TEL +44(0)1905 792500
FAX +44(0)1905 792501
EMAIL bbsales@big-bear.co.uk
WEB www.big-bear.co.uk

BNL (UK) Ltd
TEL +44(0)1204 526 241
FAX +44(0)1204 521 958
EMAIL sales@bnl-bearings.com
WEB www.bnleurope.com

Bolton Plastic Components Ltd
TEL +44(0)1204 252 666
FAX +44(0)1204 521 958
EMAIL sales@boltonplastics.co.uk
WEB www.boltonplastics.co.uk

Broanmain Limited
TEL +44(0)1306 885 888
FAX +44(0)1306 885 889
EMAIL info@broanmain.co.uk
WEB www.broanmain.co.uk

Carclo Technical Plastics Ltd
TEL +44(0)1208 685 0500
FAX +44(0)1208 640 4715
EMAIL enquiries@carclo-plc.com
WEB www.carclo-plc.com

Champion Mouldings Ltd
TEL +44(0)161 723 3574
FAX +44(0)161 725 9139
EMAIL Andrew@championmouldings.com

CJ Tool & Mouldings Ltd
TEL +44(0)131 378 866
EMAIL info@cjtollandmouldings.co.uk
WEB www.cjtollandmouldings.co.uk

Curver UK Ltd
TEL +44(0)1209 203 340
EMAIL quality@contico.co.uk
WEB www.curver.com

Daniels Healthcare Care
TEL +44(0)1865 371 841
FAX +44(0)1865 309 579
EMAIL info@daniels.co.uk
WEB www.daniels.co.uk

Data Plastics Ltd
TEL +44(0)1993 700 777
FAX +44(0)1993 700 555
EMAIL sales@dataplastics.co.uk
WEB www.dataplastics.co.uk

Denroy Plastics Ltd
TEL +44(0)289 147 4822
FAX +44(0)289 147 553
EMAIL sales@denroy.com
WEB www.denroy.com

Desch Plantpak Ltd
TEL +44(0)1621 745 500
FAX +44(0)1621 745 525
EMAIL C.Breed@desch-plantpak.com
WEB www.desch-plantpak.com

Eaton Automotive Operations Ltd
TEL +44(0)1538 424 911
EMAIL CarlBowater@eaton.com
WEB www.eaton.com

Fiskars UK Ltd
TEL +44(0)1159277335
EMAIL s.craig@fiskars.com
WEB www.fiskars.com

Flamebeau Europlast Ltd
TEL +44(0)1843 854 000
FAX +44(0)1843 854 010
EMAIL eusales@flamebeau.co.uk
WEB www.flamebeau.co.uk

F L Plastics Ltd
TEL +44(0)1603 418 989
FAX +44(0)1603 418 990
EMAIL sales@fllplasticsuk.co.uk
WEB www.fllplasticsuk.co.uk

Forteq (UK) Ltd
TEL +44(0)1484 424 384
FAX +44(0)1484 535 053
EMAIL forteq.uk@forteq-group.com
WEB www.forteq-group.com

Frontier Plastics Ltd
TEL +44(0)1495 235 800
FAX +44(0)1495 235 808
EMAIL info@frontier-group.co.uk
WEB www.frontier-group.co.uk

Goodfish Ltd
TEL +44(0)1543 505323
OR +44(0)1543 570942
EMAIL perry@goodfish Ltd
WEB www.goodfish Ltd

Hallam Plastics Ltd
TEL +44(0)1773 531 151
FAX +44(0)1773 533 267
EMAIL enquiries@hallamplastics.co.uk
WEB www.hallamplastics.co.uk

Harold Fisher Plastics Ltd
TEL +44(0)1484 854 321
FAX +44(0)1484 854 244
EMAIL jeff.monks@fisherplastics.co.uk
WEB www.fisherplastics.co.uk

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40
For more information on the British Group go to www.bpf.co.uk
Alpla UK
TEL: +44(0)1892 836 566
FAX: +44(0)1892 936 979
EMAIL: info.uk@gabriel-chemie.com
WEB: www.gabriel-chemie.com

Hubron (International) Ltd
TEL: +44(0)161 681 2991
FAX: +44(0)161 683 4658
EMAIL: sales@hubron.com
WEB: www.hubron.com

Performance Masterbatch Ltd (PMB)
TEL: +44(0)1495 310 583
FAX: +44(0)1495 312 158
EMAIL: customer.service@pmb.co.uk
WEB: www.pmb.co.uk

Prisma Colour Ltd
TEL: +44(0)1457 856 505
FAX: +44(0)1457 851 055
EMAIL: mark.wood@prismacolour.co.uk
WEB: www.primacolour.co.uk

Silvergate Plastics
TEL: +44(0)1978 661 496
FAX: +44(0)1978 660 462
EMAIL: sales@silvergate-plastics.co.uk
WEB: www.silvergate-plastics.co.uk

Wells Plastics Ltd
TEL: +44(0)1785 817 421
FAX: +44(0)1785 816 357
EMAIL: sales@wellsplastics.com
WEB: www.wellsplastics.com

Blowplast
TEL: +44(0)1949 472 321
FAX: +44(0)1949 462 665
WEB: blowplastltd@btconnect.com

Canyon Europe
TEL: +44(0)28 9084 1917
FAX: +44(0)28 9084 4528
EMAIL: mjohnston@canyoneurope.com
WEB: www.canyoneurope.com

Constar International UK
TEL: +44(0)1977 882 000
FAX: +44(0)1977 882 091
EMAIL: enquiries@constar.net
WEB: www.constar-europe.net

Cope Allman Jaycare
TEL: +44(0)191 296 0303
FAX: +44(0)191 296 1842
EMAIL: sales@capejaycare.com
WEB: www.jaycare.com

D S Smith Plastics
TEL: +44(0)1604 596 600
FAX: +44(0)1604 758 024
EMAIL: foamproducts@dssmith.ie
WEB: www.dssmith-foamproducts.com

Esterform Packaging
TEL: +44(0)1584 810 600
FAX: +44(0)1584 810 213
EMAIL: contact@esterform.com
WEB: www.esterform.com

F-L Plastics
TEL: +44(0)1603 418 989
FAX: +44(0)1603 418 990
EMAIL: geoff@fllplasticsuk.com
WEB: www.fllplasticsuk.com

Global Closure Systems
TEL: +44(0)1784 415 200
FAX: +44(0)1784 415 204
EMAIL: corinne.barlow@gcs.com
WEB: www.gcs.com

Graham Packaging Plastics Ltd
TEL: +44(0)1865 893 000
FAX: +44(0)1865 893 100
EMAIL: chalgrove@gpceurope.com
WEB: www.gpceurope.com

JF McKenna
TEL: +44(0)28 3752 4800
FAX: +44(0)28 3752 2227
EMAIL: info@jfmcckenna.com
WEB: www.jfmcckenna.com

Jubb UK
TEL: +44(0)116 212 2121
FAX: +44(0)116 212 3113
EMAIL: sales@jubbuk.com
WEB: www.jubbuk.com

LINPAC Allibert
TEL: +44(0)121 607 6700
FAX: +33(0)1606 561 998
EMAIL: info@linpac.com
WEB: www.linpac.com

LINPAC Packaging
TEL: +44(0)1977 671 111
FAX: +44(0)1977 676 70
EMAIL: info@linpacpackaging.com
WEB: www.linpac.com

Logoplate UK
TEL: +44(0)118 971 9770
FAX: +44(0)118 971 9799
EMAIL: Logoplatelondon@logoplate.com
WEB: www.logoplate.com

Measom Freer
TEL: +44(0)116 288 1588
FAX: +44(0)116 281 3000
EMAIL: sales@measomfreer.co.uk
WEB: www.measomfreer.co.uk

Mipack
TEL: +44(0)116 761 6060
FAX: +44(0)116 763 1005
EMAIL: sales@mipack.co.uk
WEB: www.mipack.co.uk

M&H Plastics
TEL: +44(0)1502 715 518
FAX: +44(0)1502 717 115
EMAIL: marketing@m&hplastics.com
WEB: www.m&hplastics.com

Moulded Foams
TEL: +44(0)1226 781 733
FAX: +44(0)1234 781 744
EMAIL: th@mouldedfoams.com
WEB: www.mouldedfoams.com

Namplak Plastics Europe
TEL: +44(0)1908 611 554
FAX: +44(0)1908 611 519
EMAIL: enquiries@eu.namplak
WEB: www.eu.namplak.com

Perfecseal Ltd
TEL: +44(0)28 7181 4100
FAX: +44(0)28 7181 4110
EMAIL: perfecsealderyinformation@bemis.com
WEB: www.perfecseal.com

Philips Avent
TEL: +44(0)1787 267 000
FAX: +44(0)1787 267 003
EMAIL: peter bartlett@philips.com
WEB: www.philips.com/AVENT

Plastek UK
TEL: +44(0)1623 662 233
FAX: +44(0)1623 662 244
EMAIL: Sales@plastekuk.com
WEB: www.plastekuk.com

Plastic Bottle Supplies
TEL: +44(0)1902 397 397
FAX: +44(0)1902 397 366
EMAIL: Sales@plasticbottlesupplies.co.uk
WEB: www.plasticbottlesupplies.co.uk

Portola Packaging Ltd
TEL: +44(0)1302 552 490
FAX: +44(0)1302 365 941
EMAIL: Sales@portola.co.uk
WEB: www.portola-europe.com

Promens Packaging
TEL: +44(0)11502 718 400
FAX: +44(0)11502 718 450
EMAIL: Sales@bentes@promens.com
WEB: www.promens.com

Robinson Plastic Packaging
TEL: +44(0)1623 752 869
FAX: +44(0)1623 751 126
EMAIL: plastics@robinsonpackaging.com
WEB: www.robinsonpackaging.com

RPC Group
TEL: +44(0)1933 416 528
FAX: +44(0)1933 416 566
EMAIL: enquiries@rpc-group.com
WEB: www.rpc-group.com

Schoeller Allibert Limited/Schoeller Allibert
TEL: +44(0)1215 060 100
EMAIL: Info.uk@schoellerallibert.com
WEB: www.schoellerallibert.com

Sharpak Bridgewater Limited
TEL: +44(0)1278 435 000
EMAIL: Filipmeze@sharpakbridgewater.com
WEB: www.sharpakbridgewater.com

Simplipac
TEL: +44(0)1202 694 259
FAX: +44(0)1202 600 640
EMAIL: Info@Simplipac.co.uk
WEB: www.simplipac.co.uk
Resinex UK Ltd
TEL +44(0)1925 750 320
FAX +44(0)1925 750 321
EMAIL up@ultrapolymers.com
WEB www.ultrapolymers.com

Polymers Producers / Suppliers

Alphagary Ltd
TEL +44 (0) 1664 502222
FAX +44 (0) 1664 502250
EMAIL mshakespeare@laporteplc.com
WEB www.alphagary.com

Axeon Polymers
TEL +44(0)161 737 6124
FAX +44(0)161 925 9761
EMAIL sales@axionpolymers.com
WEB www.axionpolymers.com

Basell Polyolefins UK Ltd
TEL +44 (0) 1908 360 000
FAX +44 (0) 1908 360 036
EMAIL info@lyondellbasell.com
WEB http://www.lyondellbasell.com

Bayer Plc
TEL +44 (0) 1635563000
FAX +44 (0) 1635563822
WEB www.bayer.co.uk

Berwin Group
TEL +44 (0) 161 330 2504
FAX +44 (0) 161 343 1208
EMAIL info@berwin-rubber.co.uk
WEB http://www.berwin-rubber.co.uk

BPI Recycled Products
TEL +44(0)1685 846154
FAX +44(0)1685 843672
EMAIL recycled@bpipoly.com
WEB www.bpipoly.com

Centriforce Products Ltd
TEL +44(0)151 207 8100
FAX +44(0)151 298 1319
EMAIL sales@centriforce.co.uk
WEB www.centriforce.com

Chase Plastics Ltd
TEL +44(0)1942 810 751
FAX +44(0)1942 814 738
EMAIL stephen.chase-plastics.co.uk
WEB www.chase-plastics.co.uk

CIK Polymers Ltd
TEL +44(0)845 8731137
FAX +44(0)1472 399863
EMAIL 3dmich@cki polymers.co.uk
WEB www.cki polymers.co.uk

Closed Loop Recycling Ltd
TEL +44(0)208 593 6040
FAX +44(0)208 593 6511
EMAIL frynovy@clrcycling.com
WEB www.closedlooprecycling.co.uk

C L Rye Trading Ltd
TEL +44(0)1702 476 486
FAX +44(0)1702 476 884
EMAIL scott@clryetading.com
WEB www.clyetading.co.uk

Dieffenbach UK Ltd
TEL +44(0)161 246 9880
FAX +44(0)161 601 7701
EMAIL enquiries@dieffenbachuk.co.uk
WEB www.dieffenbachuk.co.uk

DS Smith Recycling
TEL +44(0)800 7 381 831
FAX +44(0)2920 719482
EMAIL plastics@ds smithrecycling.com
WEB www.dsmithrecycling.com

Ecodek Vannplastic Ltd
TEL +44(0)161 246 9880
FAX +44(0)161 601 7701
EMAIL enquiries@ecodek.co.uk
WEB www.ecodek.co.uk

Eco Plastics Limited
TEL +44(0)845 6784 500
FAX +44(0)845 6784 501
EMAIL info@ecoplasticsltd.com
WEB www.ecoplasticsltd.com

Jayplas (J & A Young -Leicester Ltd)
TEL +44(0)1557 710060
FAX +44(0)1557 710051
WEB www.jayplas.co.uk

JFC Plastics Ltd
TEL +44 (0)1928 583390
FAX +44 (0)1928 580941
EMAIL 3dmich@jk polymer.co.uk
WEB www.jk polymer.co.uk

Lanxess Ltd
TEL +44(0)1283 714200
FAX +44(0)1283 714201
EMAIL tanja.dicker@lanxess.com

LEXAN Home
TEL +44(0)1785 283739
FAX +44(0)1785 283740
EMAIL welcome@uk.EMSgrivory.com
WEB www.emsgrivory.com

Lexol Ltd
TEL +44(0)1377 876567
FAX +44(0)1377 876568
EMAIL info@lexol.com
WEB www.lexol.co.uk

Lexus Ltd
TEL +44 (0)1507 604941
FAX +44 (0)1507 609154
EMAIL info@luxus.co.uk
WEB www.luxus.co.uk

Lexus Polymers
TEL +44 (0)1286 442080
FAX +44 (0)1286 442090
EMAIL dawn.pimrie@biffa.co.uk
WEB www.biffa.co.uk

LyondellBasell Middle East
TEL +44(0)1942 810 751
FAX +44(0)1942 814 738
EMAIL stephen.chase-plastics.co.uk
WEB www.chase-plastics.co.uk

M S Chemie UK Ltd
TEL +44(0)1785 283739
FAX +44(0)1785 283740
EMAIL welcome@uk.EMSgrivory.com
WEB www.emsgrivory.com

M & J Polymers
TEL +44(0)1788 557430
FAX +44(0)1788 557431
EMAIL info@mj polymers.co.uk
WEB www.mj polymers.co.uk

Polymer Producers / Suppliers

Basell Polyolefins UK Ltd
TEL +44 (0) 1908 360 000
FAX +44 (0) 1908 360 036
EMAIL info@lyondellbasell.com
WEB http://www.lyondellbasell.com

Bayer Plc
TEL +44 (0) 1635563000
FAX +44 (0) 1635563822
WEB www.bayer.co.uk

Berwin Group
TEL +44 (0) 161 330 2504
FAX +44 (0) 161 343 1208
EMAIL info@berwin-rubber.co.uk
WEB http://www.berwin-rubber.co.uk

BPI Recycled Products
TEL +44(0)1685 846154
FAX +44(0)1685 843672
EMAIL recycled@bpi poly.com
WEB www.bpi poly.com

Centriforce Products Ltd
TEL +44(0)151 207 8100
FAX +44(0)151 298 1319
EMAIL sales@centriforce.co.uk
WEB www.centriforce.com

Chase Plastics Ltd
TEL +44(0)1942 810 751
FAX +44(0)1942 814 738
EMAIL stephen.chase-plastics.co.uk
WEB www.chase-plastics.co.uk

CIK Polymers Ltd
TEL +44(0)845 8731137
FAX +44(0)1472 399863
EMAIL 3dmich@cki polymers.co.uk
WEB www.cki polymers.co.uk

Closed Loop Recycling Ltd
TEL +44(0)208 593 6040
FAX +44(0)208 593 6511
EMAIL frynovy@clrcycling.com
WEB www.closedlooprecycling.co.uk

C L Rye Trading Ltd
TEL +44(0)1702 476 486
FAX +44(0)1702 476 884
EMAIL scott@clryetading.com
WEB www.clyetading.co.uk

Dieffenbach UK Ltd
TEL +44(0)161 246 9880
FAX +44(0)161 601 7701
EMAIL enquiries@dieffenbachuk.co.uk
WEB www.dieffenbachuk.co.uk

DS Smith Recycling
TEL +44(0)800 7 381 831
FAX +44(0)2920 719482
EMAIL plastics@ds smithrecycling.com
WEB www.dsmithrecycling.com

Ecodek Vannplastic Ltd
TEL +44(0)161 246 9880
FAX +44(0)161 601 7701
EMAIL enquiries@ecodek.co.uk
WEB www.ecodek.co.uk

Eco Plastics Limited
TEL +44(0)845 6784 500
FAX +44(0)845 6784 501
EMAIL info@ecoplasticsltd.com
WEB www.ecoplasticsltd.com

Jayplas (J & A Young -Leicester Ltd)
TEL +44(0)1557 710060
FAX +44(0)1557 710051
WEB www.jayplas.co.uk

JFC Plastics Ltd
TEL +44 (0)1928 583390
FAX +44 (0)1928 580941
EMAIL 3dmich@jk polymer.co.uk
WEB www.jk polymer.co.uk
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Impact Solutions
MATERIAL Supplier
TEL +44(0)1324 489182
FAX +44(0)1324 489633
EMAIL info@impact-solutions.co.uk
WEB www.impact-solutions.co.uk

Kirkdale 2000 Ltd
MATERIAL Supplier
TEL +44(0)191 2574343
FAX +44(0)191 257 4433
EMAIL kirkdale-2000@btconnect.com
WEB www.kirkdale2000.co.uk

Microlip
Material Supplier
TEL +44(0)161 3305570
FAX +44(0)161 3437687
EMAIL enquiry@microlip.co.uk
WEB www.microlip.co.uk

Matrix Polymers
Material Supplier
TEL +44(0)1640 789100
FAX +44(0)1640 789123
EMAIL info@matrixpolymers.com
WEB www.matrixpolymers.com

Prisma Colour Ltd
MATERIAL Supplier
TEL +44(0)161 457 856 505
FAX +44(0)161 457 851 055
EMAIL michael@prismacolour.com
WEB WWW.PRISMACOLOUR.CO.UK

Rotomotive Ltd
ADDITIONAL Services
TEL +44(0)1604 497589
EMAIL info@rotomotive.net
WEB WWW.ROTOMOTIVE.NET

Queen’s University Belfast
TEL +44(0)2890 974700
FAX +44(0)2890 660631
EMAIL ppqc@qub.ac.uk
WEB www.qub.ac.uk/qqc

Steel Tool Solutions Ltd
TEL +44(0)191 258 3355
EMAIL john.stts@btconnect.com
WEB www.steeltoolsolutions.co.uk

Total Petrochemicals UK Ltd
TEL +44(0)161 3032200
FAX +44(0)161 3039198
EMAIL jeff.woollatt@total.com
WEB www.totalpetrochemicals.co.uk

Ultrapolymers
TEL +44(0)1925 282300
FAX +44(0)1925 282302
EMAIL up@ultrapolymers.co.uk
WEB www.ultrapolymers.co.uk

SERVICE PROVIDERS

Barclays Corporate Banking Services
TEL +44(0)77 7555 1209
FAX +44(0)20 7116 7689
EMAIL phil.bidwell@barclayscorporate.com
WEB www.barclayscorporate.com

Croner, a Wolters Kluwer business
HR & Health & Safety Services
TEL +44(0)14 5589 7044
MOBILE +44(0)715 715 8964
EMAIL joe.ryan@wolterskluwer.co.uk
WEB www.cronersolutions.co.uk

Edinburgh Napier University
Polymer Education, Research & Consultancy
TEL +44(0)13 1455 2622
FAX +44(0)13 1455 2264
EMAIL chindle@napier.ac.uk
WEB www.napier.ac.uk

Greystone Financial Services
Financial Services
TEL +44(0)19 297 7222
FAX +44(0)16 929 1940
EMAIL tpowell@greystones.co.uk
WEB www.greystones.co.uk

Impact Solutions
Polymer Testing and Training
TEL +44(0)13 4248 9182
FAX +44(0)13 2448 9633
EMAIL Fiona.graham@impact-solutions.co.uk
WEB www.impact-solutions.co.uk

Listgrove Ltd
RECRUITMENT Specialists
TEL +44(0)17 8920 7070
FAX +44(0)17 8920 7096
EMAIL airelle.charra@listgrove.co.uk
WEB www.listgrove.com

Smart Currency Exchange
INTERNATIONAL Payment Specialists
EMAIL Anthony@smartcurrencyservices.com
TEL +44(0)20 7898 0541
FAX +44(0)87 0285 0365
WEB www.smartcurrencyservices.com

Travers Smith
LEGAL Services
TEL +44(0)20 7295 3000
FAX +44(0)20 7295 3500
EMAIL Julia.hudson@traverssmith.com
WEB www.traverssmith.com

Willis Commercial Network
Insurance Brokers
TEL +44(0)11 5965 6504
FAX +44(0)12 1214 1630
EMAIL keetonpp@willis.com
WEB www.cherrypickedinsurance.com

TESTING HOUSES & UNIVERSITIES

Impact Solutions
Polymer Testing and Training
TEL +44(0)13 4248 9182
FAX +44(0)13 2448 9633
EMAIL Fiona.graham@impact-solutions.co.uk
WEB www.impact-solutions.co.uk

Loughborough University
Polymer Research and Training
TEL +44(0)15 0926 3171
FAX +44(0)15 0922 3949
EMAIL M.E.White@lboro.ac.uk
WEB www.lboro.ac.uk

PERA Technology
Business Innovation
TEL +44(0)16 650 1501
FAX +44(0)16 650 1519
EMAIL Andy.Dean@pera.com
WEB www.pera technology.com

PICME
Skills Training
MOBILE +44(0)77 150 8722
TEL +44(0)16 304 5909
FAX +44(0)16 304 5901
EMAIL jason.barclay@picme.org
WEB www.picme.org

Polymer IRC
Polymer Research
TEL +44(0)11 3433 3810
FAX +44(0)11 3433 3846
EMAIL p.d.oldsted@leeds.ac.uk
WEB www.polymer irc.org

Solutions4Polymers Ltd
POLYMERIC Training and SUPPORT
TEL +44(0)177 7337 3127
FAX +44(0)15 4367 4525
EMAIL Andy@ solutions4polymers.co.uk
WEB www.solutions4polymers.co.uk

UL International (UK)
Global independent safety science company
EMAIL Nigel.Talbot@ul.com
TEL +44(0)19 2525 8880
FAX +44(0)145 790 9880
WEB www.ul.com/global/eng/pages

Wolverhampton Polymer Training & Innovation Centre Training, Education & Innovation Expertise
TEL +44(0)19 5261 0101
FAX +44(0)19 5277 3744
EMAIL PTW@wolvcol.ac.uk
WEB www.wolvcol.ac.uk/polymer

SPECIALIST PROCESSORS

Cinram Operations UK Ltd
TEL +44(0)1473 237600
EMAIL info@cinram.com
WEB www.cinram.com

Northern Ireland Plastics Ltd
TEL +44(0)2844 828753
EMAIL info@niplastics.com
WEB www.niplastics.com

West Pharmaceutical Services
Cornwall Ltd
TEL +44(0)1726 223238
EMAIL lan.johnson@westpharma.com
WEB www.westpharma.com

VINYLs

Altro Floors
TEL +44(0)1462 480480
FAX +44(0)1462 480010
EMAIL gcle@altro.co.uk
WEB www.altro.co.uk

Baerlocher UK Ltd
TEL +44(0)191 259 7000
EMAIL info@baerlocher.co.uk
WEB www.baerlocher.co.uk
Berwin Group  
TEL: +44 (0)191 259 7000  
EMAIL: sales.uk@chemson.com  
WEB: www.chemson.com

BICEA C/O MT2000 (Extrusions) Ltd.  
TEL: +44 (0) 1325 308111  
FAX: +44 (0) 1325 308222  
EMAIL: keiths@mt2000.co.uk

Chemson  
TEL: +44 (0) 191 259 7000  
FAX: +44 (0) 191 259 7001  
EMAIL: sales.uk@chemson.com  
WEB: www.chemson.com

Chemtura Manufacturing UK Ltd  
TEL: +44 (0)161 872 2323  
EMAIL: ian.king@chemtura.com  
WEB: www.chemtura.com

Dugdale Plc  
TEL: +44 (0) 1422 832 501  
FAX: +44 (0) 1422 833 401  
EMAIL: sales@dugdaleplc.com  
WEB: www.dugdaleplc.com

eChem Ltd  
TEL: +44 (0)1132 457 471  
FAX: +44 (0)1132 445 082  
EMAIL: enquiries@echem.co.uk  
WEB: www.echem.co.uk

Hepworth Building Products  
TEL: Tel +44 (0)1792 856300  
FAX: Fax +44 (0)1792 856301  
EMAIL: info@hepworth.co.uk  
WEB: www.hepworth.co.uk

Exxon Mobil Chemical Ltd  
TEL: +44 (0)2380 893 822  
FAX: +44 (0)2380 895 909  
WEB: www.exxonmobilchemical.com

Glynwed Pipe Systems Ltd  
TEL: +44 (0) 1217423866  
FAX: +44 (0) 121 742 0403  
EMAIL: enquiries@glynwedpipesystems-uk.com  
WEB: www.durapipe-slp.co.uk

INEOS Chlorvinyls UK Ltd  
TEL: +44(0)1928 561111  
EMAIL: euro.sales.enquiries@ineoschlor.com  
WEB: www.ineoschlorvinyls.com

Polyflor Ltd  
TEL: +44 (0) 161 767 1111  
FAX: +44 (0) 161 767 1188  
EMAIL: sjames@polyflor.com  
WEB: www.polyflor.com

Polypipe  
TEL: +44 (0) 1709 770000  
FAX: +44 (0) 1709 770001  
EMAIL: info@polypipe.com  
WEB: www.polypipe.com

Renolit Cramlington Ltd  
TEL: +44 (0) 1670 718222  
FAX: +44 (0) 1670 590 096  
EMAIL: info@renolit.com  
WEB: www.renolit.com

Rohm & Haas Europe / Dow Chemical Company Ltd  
TEL: +44 (0) 2746 654400  
EMAIL: webmaster@dow.com  
WEB: www.dow.com

Solvay Polymers Limited  
TEL: +44 (0)1295 651277  
EMAIL: webmaster@solvay.com  
WEB: www.solvay.com

Tarkett Ltd  
TEL: +44 (0) 1622 854000  
FAX: +44 (0) 1622 854500  
EMAIL: sales@tarkett.com  
WEB: www.tarkett.com

UKRFA c/o Dean Wilson LLP  
TEL: +44 (0) 1273 249200

Vinnolit Ltd  
TEL: +44 (0)1253 898900  
FAX: +44 (0)1253 898907  
EMAIL: paul.eastup@vinnolit.com  
WEB: http://www.vinnolit.de/vinnolit.nl/servlet/EN_Home

Wavin Ltd  
TEL: +44 (0) 1249 654121  
FAX: +44 (0) 1249 443286  
EMAIL: info@wavin.co.uk  
WEB: www.wavin.co.uk

Plastipack Ltd  
TEL: +44 (0)1424 851659  
FAX: +44(0)1424 853909  
EMAIL: info@plastipack.co.uk  
WEB: www.plastipack.co.uk

Veka Plc  
TEL: +44 (0)1282 716611  
EMAIL: salesenquiry@veka.com  
WEB: www.veka.uk

Fabricators and Installers  
Lister Trade Frames Limited  
TEL: +44 (0)1782 391 900  
EMAIL: Sales@listerframes.co.uk  
WEB: www.listerframes.co.uk

Snowdonia (Windows & Doors) Ltd  
TEL: +44 (0)1352 758 812  
WEB: www.snowdoniawindows.co.uk

Zenith Staybrite Ltd  
TEL: +44(0)800 238 9395  
WEB: www.zenithhome.co.uk

Raw Materials and Additive Suppliers  
Chemson Ltd  
TEL: +44 (0)191 259 7000  
EMAIL: sales.uk@chemson.com  
WEB: www.chemson.co.uk

Mitsui & Co UK plc  
TEL: +44 (0)20 7822 0321  
EMAIL: dhicks@idn.vm.mitsui.co.jp  
WEB: www.mitsui.co.jp/tkabz/english/

Rohm and Haas (UK) Ltd  
TEL: +44 (0) 2746 654400  
EMAIL: SAdams@rohmhaas.com  
WEB: www.rohmhaas.com

Specialist Services  
Foilit  
Independent profile wrapping specialist  
TEL: +44 (0)1604 706222  
EMAIL: info@foilit.co.uk  
WEB: www.foilit.co.uk

Groupco Ltd  
Supplier of door and window fittings to the windows market  
TEL: +44 (0)1733 234750  
EMAIL: sales@groupco.co.uk  
WEB: www.groupco.co.uk

Renolit  
Supplier of foil to the windows industry  
TEL: +44 (0)1782 718222  
EMAIL: info@renolit.co.uk  
WEB: www.renolit.com

For more information on the British Group go to www.bpf.co.uk
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*See page 37 for contact details of each company*
Injection Moulders

See page 40 for contact details of each company
### Injection Moulders

- See page 40 for contact details of each company.
## Masterbatch and Technical Compounds

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<th>Components</th>
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Note: See page 41 for contact details of each company.
### Packaging

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* Bottles, Jars, Pails & Buckets

**HDPE, PVC and/or PETG Bottles

See page 42 for contact details of each company
### Polymer Distributors & Compounders

**Common Abbreviations**

- **PBT** Polybutylene Terephthalate
- **ABS** Acrylonitrile-Butadiene-Styrene
- **PS** Polystyrene
- **SBS** Styrene-Butadiene-Styrene
- **PP** Polypropylene
- **HDPE** High Density Polyethylene
- **LDPE** Low Density Polyethylene
- **EVA** Ethylene Vinyl Acetate
- **PVC** Polyvinyl Chloride
- **TPE** Thermoplastic Elastomer
- **TPU** Thermoplastic Polyurethane

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See page 43 for contact details of each company

For more information on the British Group go to [www.bpf.co.uk](http://www.bpf.co.uk)
Recyclers

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See page 45 for contact details of each company
Service Providers

- See page 46 for contact details of each company
## Testing Houses

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<th>Loughborough University</th>
<th>Sheffield Polymer</th>
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*Indicates Polymer IRC University  
**Wolverhampton Polymer Training & Innovation Centre

See page 46 for contact details of each company
**Polymer Courses & Universities**

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See page 46 for contact details of each company