TPE 2004

The 7th international conference on new opportunities for thermoplastic elastomers

Organised by

Rapra Technology Limited

Brussels, Belgium
15-16 September 2004
**TPE 2004**  
15-16 September 2004  
Brussels, Belgium

## Contents

<table>
<thead>
<tr>
<th>Session</th>
<th>Title</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>SESSION 1: OVERVIEW</strong></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
| Paper 1 | The thermoplastic elastomer scene in 2004  
Mr Barry Statham, Polymer Consultant, UK | 5 |
| **SESSION 2: ADVANCES IN THERMOPLASTICS VULCANISATES** | | |
| Paper 2 | Changing the game in TPVs, formulating advantages  
Dr Gary Williams, Du Pont Dow Elastomers, USA | 9 |
| Paper 3 | New thermoplastic vulcanizates (TPVs) with improved UV resistance and fogging properties  
Mr Alberto Dozeman, Yundong Wang, Hua Cai & Ryszard Brzoskowski, DSM Thermoplastic Elastomers, The Netherlands | 29 |
| Paper 4 | New thermoplastic vulcanizates (TPVs) with improved processibility for injection moulding applications  
Dr Jan-Tom Femhout, Yundong Wang, Hua Cai & Ryszard Brzoskowski, DSM Thermoplastic Elastomers Inc, USA | 35 |
| Paper 5 | New developments in TPV  
Mr Brendan Chase, Advanced Elastomer Systems NV/SA, Belgium  
+++ PAPER UNAVAILABLE AT TIME OF PRINT +++ | 43 |
| Paper 6 | 150°C heat and oil resistant TPVs - long term fluid and spike temperature comparison  
Mr Jeff Dickerhoof, Sam Harber & Brian Cail, Zeon Chemicals, USA | 45 |
| **SESSION 3: PROCESS OILS** | | |
| Paper 7 | Process oils for TPE  
Dr Arnaud Mahay, Exxonmobil, France | 53 |
| Paper 8 | Group II process oils  
Robert Plummer and Gene Robinson, Chevron Texaco Global Lubricants, USA | 61 |
| **SESSION 4: RUBBER MARKETS** | | |
| Paper 9 | Rubber trends and analyses  
Mr Darren Cooper, Dr Prachaya Jumpasut & Dock No, IRSG, UK | 73 |
| **SESSION 5: AUTOMOTIVE MARKETS** | | |
| Paper 10 | Inter-TPE competition in an expanding global automotive market  
Mr Robert Eller, Robert Eller Associates Inc, USA | 97 |
SESSION 6: ADVANCES IN STYRENIC BLOCK COPOLYMERS

Paper 11 Superior aesthetics – performance – process – the new generation of TPE
Dr Hans Peter Wolf (Germany), Sophie Bechu & Alexis von Tscharmer (France), Dow Coming/Multibase
+++ PAPER UNAVAILABLE AT TIME OF PRINT +++

Paper 12 New unique HSBC (hydogenated styrenic block co-polymer) with reactive hard blocks
Mr Katsunori Takamoto, Kuraray Europe GmbH, Germany

Paper 13 Crosslinked SBR in block copolymer compounds to achieve certain EPDM TPV performance
Dr Manoj Ajbani, Goodyear Chemical Division, USA

SESSION 7: ADVANCES IN OTHER THERMOPLASTIC ELASTOMERS

Paper 14 New test methods for the characterization of thermoplastic elastomers
Prof Norbert Vennemann and Klaus Bökamp, University of Applied Sciences Osnabrueck, Germany and Synco De Vogel, Kevin Cai, Satisch Srinivasan(Solvay Engineered Polymers), Germany

Paper 15 Phase behaviour and structure of high hard block content polyurethanes
Dr Alberto Saiani, University of Manchester, UK

Paper 16 Phase-separated microstructures of all-acrylic thermoplastic elastomers
Dr Philippe Lectere, Universite de Mons

SESSION 8: DEVELOPMENTS IN PROCESSING

Paper 17 The potential of processing additives to improve extrusion performance of TPE-V compounds
Dr Lutz Kirchner, Mr Steffen Foese and Dr Joachim Bertrand, Schill & Seilacher "Struktol" AG, Germany

Paper 18 TPE in the profiling industry
Mr Peter Nagl, LWB Steinl GmbH & Co KG, Germany
+++ PAPER UNAVAILABLE AT TIME OF PRINT +++

Paper 19 Mould technology for multi-component injection moulding
Klaus Rahnhofer, Demag Plastics Group, Germany

Paper 20 Moulding simulation for the thermoplastic elastomers
Wim Schermerhorn, Sigmasoft, Germany
+++ PAPER UNAVAILABLE AT TIME OF PRINT +++