THE TECHNICAL SERVICE MAGAZINE FOR THE RUBBER INDUSTRY VOLUME 247, No. 1

Rubber Division meets in Cincinnati for 182nd Technical Meeting and International Rubber Expo

Improved stabilization for TPEs

Thermo and photo oxidative behavior of poly (phenylene ether) based TPEs

Fluorosilicones in the aerospace inclustry

Thermoplastic and elastomer compounds

090234 000234

BIRMINGHAM AL 35283-0470
FO BOX 830470
EBSCO ORDER #89263873

SS6ST/ ZZ00

#BTO8383\ 2# #BXMAZDH ********

www.rubberworld.com

Contents

Vol. 247, No. 1 October 2012

FEATURES

22 Improved stabilizers for TPEs

by Carrie W. Burr, R.T. Vanderbilt. Several new stabilization systems are investigated that provide improved heat and color stability for thermoplastic elastomer resins compared with conventional antioxidant packages.

29 Thermo- and photooxidative behavior of poly (phenylene ether) based TPEs

by Samik Gupta, Tapan Chandra and Ashok Menon, GE Global Research, SABIC Innovative Plastics Programs, and Anil K. Bhowmick, IIT Patna, India. Thermo- and photo-oxidative behavior of a series of novel thermoplastic elastomers from SEBS, EVA and PPE-PS is examined.

40 Titanates and zirconates in thermoplastic and elastomer compounds

by S.J. Monte, Kenrich Petrochemicals. Coupling agent liquid, powder and pellet forms, dosage, data and applications methodology in compounding and molding of titanates and zirconates in thermoplastic and elastomer compounds are discussed.

Rubber Division meets in Cincinnad for It Send Technical Meeting and International Rubber Expo

47 Fluorosilicones in the aerospace industry

by Brian Burkitt, NuSil Technology. The chemistry of silicone and fluorosilicone is outlined in this article, which also demonstrates the different types of fluorosilicones available for end-users' processes and highlights their performance in hydrocarbon, as well as high- and low-temperature environments.

DEPARTMENTS

- 4 Editorial
- 6 Business Briefs
- 14 Market Focus
- 16 Silicone/Medical Update
- **18 Patent News**
- 53 Meetings
- 60 Suppliers Showcase
- **67** People in the News

Digital Edition Content

See the October digital edition of Rubber World for additional content not found in the print edition

- More U.S. patents
- Expanded business news
- Expanded equipment information
- Expanded instrumentation information.
- Expanded materials information
- Expanded literature selection

Visit: rubberworld.com