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New hydrogenated styrenic block copolymers for thermoplastic polyester elastomer modification..................... 242

Kraton polymers are a class of elastomers useable without vulcanization. They are block copolymers with hard polystyrene segments combined with soft elastomeric segments. They can be blended with many plastics, such as styrenics, polyolefins and engineering thermoplastics to improve their performance, particularly their impact properties. Kraton polymers can toughen such plastics both at room and low temperatures. They can help make dissimilar plastics compatible, combining the best properties of both. They can also increase the impact performance of scrap and regrind materials. With the right grade, toughening or compatibilization can be achieved efficiently while retaining high heat resistance, good processability, good weatherability, and in certain cases, clarity.

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Optimisation of the production of hard-soft composites – New composites with polycarbonate and polyethersulfone as hard components ......................................................... 246

The paper presents investigations about the production and testing of hard-soft multi-component composites with amorphous polycarbonate or polyethersulfone as hard component and flexible low modulus polyurethane as soft component. Polyethersulfone-polyurethane composites have not been reported so far. The composites were produced by injection and compression moulding. Peel tests (90°) were carried out to quantitatively characterize the bond strength and an apparent energy release rate was calculated based on the results of the analysis of the peel forces.

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Development of a styrene-ethylene copolymer with novel architecture .................................................. 254

Denka Co. Ltd. has developed a styrene-ethylene copolymer with novel architecture (SE polymer). This new type of styrene thermoplastic elastomer, which consists of an Et-St matrix (soft segment) and PS domain (hard segment), has important features such as scratch resistance, oil resistance, and excellent texture. Additionally, SE polymer is applicable as a modifier for PP compounds to improve scratch and oil resistance. Its application is anticipated for products such as medical tubes, automotive interior components, and wire insulation cable jackets.
X. SUN, H. KHARBAS, L.-S. TURNG

Low-density TPU foam injection molding using \( \text{N}_2 + \text{CO}_2 \) co-blowing agents ............................................. 256

Low-density TPU foam is widely used today in furniture, automotive, sportswear, and packaging applications thanks to its advantageous properties such as being lightweight, having a superior cushioning effect, fast energy restoration under compression, and wear resistance. A novel gas-laden pellets/microcellular injection molding combined approach with \( \text{CO}_2/\text{N}_2 \) co-blowing agents produces TPU foam with low density, uniform cell structure, and high durability.

B. KAUL

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S. DIESTEL, A. KRAUSE

Segmented polyurethane as matrix polymer for wood-plastic composites .................................................. 265

Wood-Plastic-Composites (WPC) are well known and established on the market since many years. Till date thermoplastic bulk plastics like polyethylene, polypropylene and polyvinylchloride have been primarily used. Segmented polyurethane has some benefits like better impact resistance, tensile strength and better compatibility to wood particles, when compared to the common WPC polymer matrices. Hence laboratory processing trials with segmented polyurethane as matrix polymer for WPC have been conducted at the University of Hamburg.