Aliphatic Elastollan® enables innovative overlays for demanding floor coverings

Case Study

Aliphatic TPU Elastollan® from BASF provides the basis for an innovative overlay solution for manufacturing modular designer floors or other decorative surfaces. The international packaging and paper company Mondi offers this newly developed surface material under the name roomskin® floor as a composite comprising a printed decorative support and a thermoplastic polyurethane (TPU) top layer.

This elastic, highly transparent surface layer is particularly thin and very durable. It provides a brilliant decor, feels pleasant to walk on and is used primarily in new types of floor coverings. For BASF this means an expansion of the range of applications for its aliphatic Elastollan grades: In addition to established applications such as glass interlayers or films to protect cars from stone chipping, the flexible plastic is now also being used in flooring.

The Elastollan grades which are based on aliphatic raw materials are light-fast, offer the high mechanical resilience that is typical of this material, and are available in a wide Shore hardness range from 75 A to 80 D. Thanks to Elastollan's very low emissions and odorlessness, the guideline values of the AgBB scheme (German Committee for Health-Related Evaluation of Building Products) are easily complied with. This ensures a healthy indoor climate in areas inside homes and in public buildings. This new type of overlay is therefore a solid alternative to floors containing PVC.

Mondi will, also supported by BASF in the future, press ahead with further development of the overlay. The aim is to open up additional market segments with the films and coatings based on Elastollan.

Note

The data contained in this publication are based on our current knowledge and experience. In view of the many factors that may affect processing and application of our product, these data do not relieve processors from carrying out their own investigations and tests; neither do these data imply any guarantee of certain properties, nor the suitability of the product for a specific purpose. Any descriptions, drawings, photographs, data, proportions, weights, etc., given herein may change without prior information and do not constitute the agreed contractual quality of the product. It is the responsibility of the recipient of our products to ensure that any proprietary rights and existing laws and legislation are observed. (September 2019)

Further information on Thermoplastic Polyurethane Elastomers (TPU) can be found on the Internet at:
www.elastollan.basf.de

Please also visit our websites:
www.plastics.basf.com
www.plastics.basf.de

Brochure request:
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For technical queries relating to these products Please use the Elastollan® Infopoint: