

DANTHANE® I 25KB

DESCRIPTION

DANTHANE® 125KB is a polyester based, aromatic TPU, already coloured in blue. This TPU granule is best suitable for coatings and films, that must show high flexibility also at low temperatures. DANTHANE® 125KB is mainly used at the production of blue coloured transport elements (transport and conveyor belt coatings).

PRODUCT CHARACTERISTIC

	Values	Method
Aspect	Blue coloured pearl granule (colour RAL 5015)	
Density	1,22g/cm ³ at 20 °C	DIN 53.479
Shore hardness	85 A	DIN 53.505
Melt Flow Index (MFI)	acc. to customer specification	
Melting range	135 – 145 °C	KOFLER
Softening range	120 – 125 °C	KOFLER
Hydrolysis resistance	Good	
Solubility	Good soluble in DMF and THF. The resistance of the films produced with DANTHANE® 125KB to all organic solvents is good, respectively the films will show a swelling behaviour by the influence of these solvents.	

MECHANICAL VALUES

	Values	Method
Tear strength	25 MPa	DIN 53.504
Elongation at break	610 %	DIN 53.504
Modulus 100 % elongation	5,5 MPa	DIN 53.504
Modulus 200 % elongation	6,0 MPa	DIN 53.504
Modulus 300 % elongation	8,5 MPa	DIN 53.504
Compression set (70 hrs./23 °C)	30 %	DIN 53.517
Compression set (24 hrs./70 °C)	80 %	DIN 53.517
Abrasion loss	30 mm ³	DIN 53.516
Glass transition temperature (Tg) (DSC, 10 °C/min.)	-29 °C	DIN 51.007

APPLICATION

DANTHANE® 125KB is applied at the hot melt coating of industrial textiles. The coated textiles are used for transport and drive sections. DANTHANE® 125KB is favoured used for sinter coatings of textiles. Concerning powder we refer to the type DANTHANE® 125KB-Powder.

PROCESSING

To get optimum results by the processing of DANTHANE® 125KB the product should be pre-dried. For drying we recommend to use tumble, vacuum and circulation dryers. The granules should be dried at a temperature range of 90 °C to 100 °C for 2 hours. DANTHANE® 125KB is mainly be processed by flat film extrusion as well as by melt calender coating. For the coating of textiles we also deliver the corresponding impregnations and primers with the DANCOLL® products.

COMPATIBILITY

DANTHANE® 125KB is an already blue coloured TPU granule. This TPU granule has also a compatibility to PVC coating raw materials and will be applied for this reason as PVC modifier. Also additive TPU masterbatches can be added. Here we refer to the additive TPU masterbatches of the DANADD® MB-range.

STORAGE

If correctly stored in a dry and cool place in its original packing, this product can be stored for at least 6 months. The product needs to be protected from humidity.

PRODUCT SAFETY

DANTHANE® 125KB is under normal hygienic processing conditions a harmless material. Please observe that TPU granules may cause electrostatic sparks. If larger quantities are being processed in the melt, vapour extraction must be ensured.

* For further information we refer to our Safety Data Sheet.

PHYSIOLOGICAL CHARACTERISTICS

With regard to physiological aspects, the product DANTHANE® 125KB is a harmless material to a large extent. For the release for applications in the food and medical sector it must be fulfilled corresponding requirements. If you intend to use the product in these two sectors, we kindly ask you to contact us.

RECYCLING

Clean and uncontaminated waste of DANTHANE® 125KB, which was separated from the substrate, may be grinded and reused as grinding material or may be added to new TPU material.

PACKAGING


25 kg special antistatic bags, packed on pallets of 750 kg. The pallets are wrapped with PE shrink films. Additionally, PE-lined cardboard bigbags of 700 kg net weight are available.





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