

DANTHANE[®] I 26KW

DESCRIPTION

DANTHANE[®] 126KW is a polyester based, aromatic TPU, already coloured in white. This TPU-granule is suitable for processing by melt calender and extrusion. This white coloured TPU is processed as coating of textiles and other supporting materials, as well as for extrusion of elastic films.

PRODUCT CHARACTERISTIC

	Values	Method
Aspect	White coloured pearl granule (colour RAL 9010)	
Density	1,23 g/cm ³ at 20 °C	DIN 53.479
Shore hardness	94 A	DIN 53.505
Melt Flow Index (MFI)	Acc. to customer specification	
Melting range	155 – 165 °C	KOFLER
Softening range	140 – 150 °C	KOFLER
Hydrolysis resistance	Good	
Chemical resistance	The resistance of the films produced with DANTHANE [®] 126KW 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	30 MPa	DIN 53.504
Elongation at break	450 %	DIN 53.504
Modulus 100 % elongation	15 MPa	DIN 53.504
Modulus 200 % elongation	20 MPa	DIN 53.504
Modulus 300 % elongation	28 MPa	DIN 53.504
Abrasion loss	60 mm ³	DIN 53.516
Compression set (70 hrs./23 °C)	40 %	DIN 53.517
Compression set (24 hrs./70 °C)	80 %	DIN 53.517
Glass transition temperature (Tg) (DSC, 10 °C/min.)	-23 °C	DIN 51.013

APPLICATION

DANTHANE® 126KW is applied at the hot melt coating of industrial textiles. The coated textiles are used for transport and drive sections. DANTHANE® 126KW is favoured used for sinter coatings of textiles. For this DANTHANE® 126KW will be grinded to powder. Concerning powder we refer to the type DANTHANE® 126KW-Powder.

PROCESSING

To get optimum results by the processing of DANTHANE® 126KW 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® 126KW 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® 126KW is an already white 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® 126KW 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® 126KW 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. This product meets the positive list acc. to FDA, 21CFR, §177/2600, for applications in the food area.

RECYCLING

Clean and uncontaminated waste of DANTHANE® 126KW, 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 500 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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