

## DANTHANE® I 25KW

### DESCRIPTION

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

### PRODUCT CHARACTERISTIC

	Values	Method
Aspect	White coloured pearl granule (colour RAL 9010)	
Density	1,23 g/cm <sup>3</sup> at 20 °C	DIN 53.479
Melt Flow Index (MFI)	acc. to customer specification	
Shore hardness	85 A	DIN 53.505
Melting range	150 – 160 °C	KOFLER
Softening range	120 – 130 °C	KOFLER
Hydrolysis resistance	Good	
Solubility	Good soluble in DMF and THF. The resistance of the films produced with DANTHANE® 125KW 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	520 %	DIN 53.504
Modulus 100 % elongation	7,5 MPa	DIN 53.504
Modulus 200 % elongation	9,0 MPa	DIN 53.504
Modulus 300 % elongation	11,0 MPa	DIN 53.504
Compression set (70 hrs./23 °C )	40 %	DIN 53.517
Compression set (24 hrs./70 °C)	85 %	DIN 53.517
Abrasion loss	40 mm <sup>3</sup>	DIN 53.516
Glass transition temperature (Tg) (DSC, 10 °C/min.)	-28 °C	DIN 51.007

## APPLICATION

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DANTHANE® 125KW is applied at the hot melt coating of industrial textiles. The coated textiles are used for transport and drive sections. DANTHANE® 125KW is favoured used for sinter coatings of textiles. For this DANTHANE® 125KW will be grinded to powder. More information concerning the powder with the name DANTHANE® 125KW–Powder you will find under the category DANTHANE® TPU-Powder.

## PROCESSING

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To get optimum results by the processing of DANTHANE® 125KW 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® 125KW can be grinded by cold grinding process to typical dust powder with a powder grit size of 0 to 500µ.

## COMPATIBILITY

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DANTHANE® 125KW 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

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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

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DANTHANE® 125KW 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

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With regard to physiological aspects, the product DANTHANE® 125KW 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

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Clean and uncontaminated waste of DANTHANE® 125KW, 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 aluminium moisture proof multilayer bags, packed on pallets of 500 kg. The delivery of 500 kg euro-pallets with PE shrink wrapping film meets the requirements of the F.R.G. transport packing regulations. Additionally, PE-lined cardboard bigbags of 700 kg net weight are available.




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