

## DANTHANE® I 26KW-POWDER

### DESCRIPTION

DANTHANE® 126KW-Powder is a polyester based, aromatic TPU powder, already coloured in white. DANTHANE® 126KW-Powder is suitable for all kind of powder applications. This TPU is mainly used for sinter coatings of technical textiles. DANTHANE® 126KW-Powder can be processed as intermediate layer and top coat. Very often DANTHANE® 126KW-Powder is used as intermediate layer and then, as top coat, the transparent type DANTHANE® 126K-Powder is used. DANTHANE® 126KW-Powder can also be used for the production of films or coatings of back sides for the afterwards thermoplastic sealing.

### PRODUCT CHARACTERISTIC

	Values	Method
Aspect	White coloured powder (colour RAL 9010)	
Powder grit size	50 – 500 µ	
Density	1,20 g/cm <sup>3</sup> at 20 °C	DIN 53.479
Melt flow index	190 °C/10,0 kg/10 min.: 65 – 95 g	
Moisture content	< 0,5 %	
Shore hardness	94 A -> 36 D	DIN 53.505
Melting range	165 – 175 °C	KOFLER
Softening range	140 – 160 °C	KOFLER
Hydrolysis resistance	Good	
Chemical resistance	Good resistant against oil, fuel, ester, ketone and hydrogen chloride.	

### MECHANICAL VALUES

	Values	Method
Tear strength	35 MPa	DIN 53.504
Elongation at break	420 %	DIN 53.504
Modulus 20 % elongation	5 MPa	DIN 53.504
Modulus 100 % elongation	13 MPa	DIN 53.504
Modulus 300 % elongation	15 MPa	DIN 53.504
Tear propagation resistance	90 kN/m	DIN 53.515
Abrasion loss	30 mm <sup>3</sup>	DIN 53.516
Resilience	37 %	DIN 53.512
Compression set (70 hrs./23 °C)	25 %	DIN 53.517
Compression set (24 hrs./70 °C)	60 %	DIN 53.517
Glass transition temperature (T <sub>g</sub> ) (DSC, 10 °C/min.)	-22 °C	DIN 51.513
Tear strength after 21 days (Immersion in water at 80 °C)	25 – 30 MPa	DIN 53.504
Elongation at break after 21 days (Immersion in water at 80 °C)	450 – 530 %	DIN 53.504



## APPLICATION

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DANTHANE® 126KW-Powder is applied at the hot melt coating of industrial textiles. The coated textiles are used for transport and drive sections. This TPU powder, coloured in white, can be used at the coating as intermediate layer and top coat. Very often DANTHANE® 126KW-Powder is used in combination by using DANTHANE® 126KW-Powder as intermediate layer and then, as top coat, the transparent type DANTHANE® 126K-Powder.

## PROCESSING

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DANTHANE® 126KW-Powder is suitable for a lot of powder coating applications. We recommend DANTHANE® 126KW-Powder for:

- sinter coating
- dot point coating
- double dot point coating
- powder coating
- powder impregnation

Before the textiles will be coated, an impregnation and primer must put on. Concerning this we refer to the DANCOLL® product range.

## COMPATIBILITY

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DANTHANE® 126KW-Powder can be modified with flow regulation agents and additive wax, respectively stearates. This TPU powder has also a good compatibility to PVC coating raw materials and will be applied for this reason as PVC modifier.

## 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® 126KW-Powder is under normal hygienic processing conditions a harmless material. Please observe that TPU powder 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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In its chemical constitution DANTHANE® 126KW-Powder corresponds to the recommendations of BGA (Bundesgesundheitsamt) and FDA (FOOD and DRUG-ADMINISTRATION) for the production of food and utensils. The terms, that are mentioned in the recommendations, must be observed.

## RECYCLING

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Clean and uncontaminated waste of DANTHANE® 126KW-Powder, 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. Additionally, PE-lined cardboard bigbags of 700 kg net weight are available.





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