

## DANTHANE<sup>®</sup> I 25KW-POWDER

### DESCRIPTION

DANTHANE<sup>®</sup> 125KW-Powder is a polyester based, aromatic TPU, already coloured in white. This TPU powder is suitable for different applications of powder coatings. DANTHANE<sup>®</sup> 125KW-Powder can be used as medium layer and top coat. The main application for this powder is the coating of transport elements (transport and conveyor belt coatings), as well as for flat belts, flexible materials for containers and technical textiles.

### PRODUCT CHARACTERISTIC

	Values	Method
Aspect	White coloured powder (colour RAL 9010)	
Powder grit size	50 – 500 µ	
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	140 – 150 °C	KOFLER
Softening range	135 – 145 °C	KOFLER
Hydrolysis resistance	Good	
Solubility	Good soluble in DMF and THF. The resistance of the films produced with DANTHANE <sup>®</sup> 125KW-Powder 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 (T <sub>g</sub> ) (DSC, 10 °C/min.)	-28 °C	DIN 51.007



## APPLICATION

---

DANTHANE® 125KW-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® 125KW-Powder is used as intermediate layer and then as top coat the transparent type DANTHANE® 125K-Powder is used.

## PROCESSING

---

DANTHANE® 125KW-Powder is suitable for a lot of powder coating applications. We recommend DANTHANE® 125KW-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

---

DANTHANE® 125KW-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

---

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® 125KW-Powder is under normal hygienic processing conditions a harmless material. 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® 125KW-Powder 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® 125KW-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. 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.





**DANQUINSA**  
GMBH

STÖRRENSTR.30  
72135 DETTENHAUSEN  
GERMANY

Post office box 147  
72133 DETTENHAUSEN  
GERMANY

 : +49 (0)7157 5225-0

 : +49 (0)7157 5225-22

 : [info@danquinsa.com](mailto:info@danquinsa.com)

[WWW.DANQUINSA.COM](http://WWW.DANQUINSA.COM)

**STAND 08/2022**