

DANTHANE® I 26K-POWDER

DESCRIPTION

DANTHANE® 126K-Powder is a polyester based, TPU powder for transparent coatings. DANTHANE® 126K-Powder is used for different powder sinter coatings. Furthermore, this TPU is also suitable for laminations of different materials. It can also be used for thermoplastic adhesion equipments, for example for label material that will be applied later by thermobatch sealing process.

PRODUCT CHARACTERISTIC

Aspect	Values	Method
Aspect	Transparent powder	
Powder grit size	50 – 500 µ	
Density	1,20 g/cm ³ 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	Very 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	25 mm ³	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 (Tg) (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

DANTHANE® 126K-Powder can be used at the coating as intermediate layer and final coating. This powder is best suitable for the lamination of textiles with supporting films by flat film lamination applications. This medium-hard TPU is mainly used for the coating of transport and conveyer belts as well as for flat belt material and flexible materials for containers. DANTHANE® 126K-Powder can also be combined with other DANADD® powders in different colours. This can be used as intermediate layer and then as top coat DANTHANE® 126K-Powder will be applied.

PROCESSING

DANTHANE® 126K-Powder will be delivered in the standard powder grit size of 50-500µ. In the case that you need a smaller grit size, please contact us. We recommend DANTHANE® 126K-Powder for:

- sinter coating
- dot point coating
- double dot point coating
- powder coating
- powder impregnation
- flatbed and transfer calender lamination

At the coating of textiles we want to indicate that we also deliver the corresponding impregnations and primers. Concerning this we refer to the DANCOLL® product range.

COMPATIBILITY

DANTHANE® 126K-Powder can be modified with flow regulation agents and additive wax. This TPU-powder has also a good compatibility to PVC thermoplast powders.

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® 126K-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

In its chemical constitution DANTHANE® 126K-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

Clean and uncontaminated waste of DANTHANE® 126K-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 gaylords 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

WWW.DANQUINSA.COM

STAND 08/2022