

## DANTHANE® I 26KS-POWDER

### DESCRIPTION

DANTHANE® 126KS-Powder is a polyester based, aromatic TPU, already coloured in black. DANTHANE® 126KS-Powder is suitable for all kind of powder and sinter coatings. This TPU is mainly used at the production of black coloured transport elements (transport and conveyer belt coatings), flat belt material and medium-hard, technical coatings. DANTHANE® 126KS-Powder can be processed as intermediate layer and top coat. Due to the black surface it will be reached very good ageing, UV and chemical resistances.

### PRODUCT CHARACTERISTIC

|                       | Values  | Method     |
|-----------------------|---|------------|
| Aspect                | Black coloured powder (colour RAL 9005)   |            |
| Powder grit size      | 50 – 500 µ  |            |
| Density               | 1,23 g/cm <sup>3</sup> at 20 °C   | DIN 53.479 |
| Melt flow index       | Acc. to customer specification  |            |
| Shore hardness        | 94 A  | DIN 53.505 |
| Melting range         | 165 – 170 °C  | KOFLER     |
| Softening range       | 140 – 160 °C  | KOFLER     |
| Hydrolysis resistance | Good  |            |
| Solubility            | Good soluble in DMF and THF.<br>The resistance of the films produced with DANTHANE® 126KS-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  | 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 <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 (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

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DANTHANE® 126KS-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 black, can be used at the coating as intermediate layer and final coating. Very often DANTHANE® 126KS-Powder is used as intermediate layer and then as top coat the transparent type DANTHANE® 126K-Powder is used. For the coating of textiles we also deliver the corresponding impregnations and primers with the DANCOLL® products.

## PROCESSING

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





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