

## DANTHANE<sup>®</sup> I 26KB

### DESCRIPTION

DANTHANE<sup>®</sup> 126KB is a polyester based, aromatic TPU, already coloured in blue. This TPU granule is used for the production of flexible films. DANTHANE<sup>®</sup> 126KB is suitable for coatings of flexible hoses and other supporting material. This TPU has a medium shore hardness and shows very good cold flexibility. It has also a good resistance against microorganism and chemicals for cleaning.

### PRODUCT CHARACTERISTIC

	Values	Method
Aspect	Blue coloured pearl granule (colour RAL 5015)	
Density	1,20 g/cm <sup>3</sup> at 20 °C	DIN 53.479
Shore hardness	94 A	DIN 53.505
Melt Flow Index (MFI)	190 °C/10,0 kg/10 min.: 65 – 95 g	
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	40 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 51.013
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® 126KB is a special TPU for coating by extrusion and calendaring. At the application DANTHANE® 126KB can be combined with other DANTHANE® types or with other materials like PVC, ABS, GFK etc. Typical applications are the production of membrane foils, decor foils, thermoplastic top coat foils, foils for flexible hoses and waterproofing foils. DANTHANE® 126KB is also used at the production of TPU foils for medical applications. It can also be grinded to powder with cold grinding. Concerning this we refer to the powder type DANTHANE® 126KB-Powder.

## PROCESSING

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To get optimum results by the processing of DANTHANE® 126KB 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® 126KB is mainly be processed by flat film extrusion as well as by melt calender coating. For the coating of textiles we also deliver the corresponding impregnations and primers with the DANCOLL® products.

## COMPATIBILITY

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DANTHANE® 126KB can be compounded with usual UV-stabiliser, lubricant wax, flame proofing and demoulding additives. All DANTHANE®/ PEARLTHANE® products can be coloured with colour masterbatches. Precaution has to be taken to get a homogenous mixture. This TPU-granule has also a 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® 126KB 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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In its chemical constitution DANTHANE® 126KB 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® 126KB, 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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