



DANPOL PES- I 20

DESCRIPTION

DANPOL PES-120 is a hotmelt copolyester adhesive in form of granules. This copolyester is usually processed using hotmelt adhesive application systems and has excellent adhesion to different materials at a low melting temperature of approx. 120 °C. It is ideally suited for the composite production of foams, various textiles and nonwovens. A special application for this copolyester is the lamination of soft foam with covering materials, for example in the production of mattresses. The copolyester is washable and cleanable at temperatures up to approx. 70 °C.

PRODUCT CHARACTERISTIC

	Values	Method
Form	Granule	
Melting point	110 – 120 °C	R&B
Melt viscosity at 160 °C at 170 °C at 180 °C at 190 °C	22.000 mPa.s 16.000 mPa.s 13.000 mPa.s 11.000 mPa.s	Brookfield Thermosel
MFI (Melt-Flow-Index) at 120 °C at 130 °C at 140 °C	- - -	DIN 53735
Tensile strength	350 kg/cm ²	
Elongation at break	600 %	ASTM D-638M
Glass transition temperature	-22 °C	DSC
Density	1,29	
Solubility	DANPOL PES-120 is insoluble in most solvents. Strong solvents such as methylene chloride only swell the product.	

APPLICATION

When processing DANPOL PES-120 using conventional hot melt systems, the temperature depends on the system. Ideally the processing temperature is between 140-180 °C. In general, storage at temperatures that are too high will lead to thermal decomposition, especially when exposed to air. For this reason, the temperature settings of the application system should be lowered if the machine is not in use for a long period of time and the use of a pre-melter is recommended.

PROCESSING

DANPOL PES-120 can be easily processed using classic hot melt processing systems or extrusion coating systems. The best way to process the granulate is to pre-plasticize it using an extruder.



STORAGE

If stored properly in a dry place at temperatures of 5 - 25 °C in the original packaging, this product has a shelf life of at least 6 months. Keep away from moisture.

PRODUCT SAFETY

DANPOL PES-120 is free of toxic ingredients, but should be handled according to the standards described in the Safety Data Sheet.

PACKAGING

500 kg pallets with 25 kg bags. Alternatively, the product can also be delivered in 500 kg BigBags.



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