



DANPOL[®] PES-910

DESCRIPTION

DANPOL[®] PES-910 is a saturated, linear, medium crystalline copolyester in form of granules. DANPOL[®] PES-910 is an optimal adhesive raw material for the application as hot-melt or solved in organic solvents. DANPOL[®] PES 910 can also be excellent processed as a hot-melt adhesive granule by melt tank or extrusion process. From DANPOL[®] PES-910 it could be also produced hot-melt powders.

PRODUCT CHARACTERISTIC

	Values	Method
Type	Saturated, linear copolyester	
Aspect/supply form	Granules	
Specific weight	1,20 g/cm ³	DIN 53.479
Melting viscosity	~ 125 Pa.s	BROOKFIELD Thermosel at 160 °C
Softening range	92 °C	
Melting range	85 – 95 °C	DSC, DIN 53.765
Melt Flow Rate (MFR) 160°C	~ 80 g/10min	
Hydroxyl number	3 – 4 mg KOH/g	
Acid number	< 3 mg KOH/g	
Open time	10 – 13 sec.	
Recrystallisation time	3 sec.	
Elongation break	700 %	
Glass transition temperature	-12 °C	DSC, DIN 53.765

APPLICATION

The copolyester DANPOL[®] PES-910 is used as a laminating adhesive. For this the granule DANPOL[®] PES-910 can be dissolved in solvent. Also, the melt-extrusion coating is possible. DANPOL[®] PES-910 is well suited for the bonding of metallic materials with plastic, such as polyolefin films (PE and PP). Also, the bonding of PET films with aluminum films is a typical application. Adhesives produced with DANPOL[®] PES-910 also have good adhesion to ABS, polyester and polyamide textiles.

PROCESSING

DANPOL[®] PES-910 can be good processed on classical hot-melt processing machines or by means of extrusion coating machines. Optimal is always a process, where the granulate is pre-plasticized through an extruder. If DANPOL[®] PES-910 will be solved, the following aromatic solvents are very good suitable: Toluol, chlorinated solvents, THF (tetrahydrofuran), MEK (methyl ethyl ketone), DMF (dimethylformamide) and NMP (N-methyl pyrrolidone). Because of the new legislation, the product is mainly dissolved in a mixture of toluol/MEK.



COMPATIBILITY

DANPOL® PES-910 is good compatible with the other copolyesters of the DANPOL® range. For the production of special hot-melts also an addition of different, natural and synthetic resins is possible.

STORAGE

If correctly stored in a dry place at room temperature and in its original packing, this product can be stored 6 months at least. A humid product can lead to embrittlement of the adhesive film during the later adhesive processing.

PRODUCT SAFETY

Under normal hygienic working conditions, DANPOL® PES-910 is a largely non-dangerous material. Please note, that polyester granulates might cause an electrostatic spark emission. If larger quantities of DANPOL® PES-910 are processed in the hot-melt, a good extraction of the melt fumes must be ensured.

* For further data, please refer to our Safety Data Sheet

PHYSIOLOGICAL CHARACTERISTICS

According to recommendations of the BGA (Bundesgesundheitsamt) and FDA (FOOD and DRUG ADMINISTRATION) DANPOL® PES-910 may be used for the bonding of food packaging. It is important to observe the conditions mentioned in the recommendations.

PACKAGING

500 kg pallets with 25 kg bags. Alternatively, the product could also be delivered in 500 kg bigbags.




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