

Lubrizol Advanced Materials Pearlstick® 45-50/18 Polycaprolactone based TPU

Category : Polymer , Thermoplastic , Polyurethane, TP

Material Notes:

Pearlstick® 45-50/18 is an elastic, linear, aromatic polyurethane, supplied in form of white spherical granules with an extremely high crystallization rate and a medium-low thermoplasticity level. Solubility: Pearlstick® 45-50/18 is soluble in Acetone, Methyl Ethyl Ketone (MEK), Cyclohexanone, Dimethyl formamide, (DMF), Tetrahydrofurane (THF). Diluting solvents such as Toluene and Ethyl Acetate can be added. The solvents and diluents should be water-free (max. 0.1%), so as to avoid subsequent side reactions during crosslinking with isocyanate. Pearlstick® 45-50/18 should be dissolved in closed tanks and the use of high shear equipments is advisable. The final viscosity figures can vary, depending on the stirring process and on the solvent/diluents ratios. Applications: Pearlstick® 45-50/18 is used for the production of adhesives for bonding plasticized PVC to plasticized PVC or other materials such as leather, textiles, rubber, in the shoe industry. Pearlstick® 45-50/18 has a good heat resistance and improved freeze resistance, and can be used as a one-component adhesive, although the addition of a polyfunctional isocyanate improves the heat-resistance. Information provided by Merquinsa

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lubrizol-Advanced-Materials-Pearlstick-45-5018-Polycaprolactone-based-TPU.php

Physical Properties	Metric	English	Comments
Density	1.19 g/cc	0.0430 lb/in ³	ISO 2781
Brookfield Viscosity	1600 - 2000 cP	1600 - 2000 cP	Brookfield RVF sp 5, 20 rpm, Solution 15% MEK (MQSA N° 55 A); MQSA 40A

Processing Properties	Metric	English	Comments
Processing Temperature	55.0 °C	131 °F	Min. Activation Temp; EN 12961

Descriptive Properties	Value	Comments
Crystallization Rate (MQSA n° 12 A)	EXTREMELY HIGH	
Hydrolysis Resistance	Good	MQSA 34B
Hydroxyl Number	0.1%	MQSA 47A
Solubility - Acetone / Ethyl Acetate	75:25	
Solubility - Acetone / Toluene	65:35	
Solubility - MEK / Toluene	75:25	
Solubility - MEK/ Ethyl Acetate	80:20	
Thermoplasticity Range (MQSA n° 58)	MEDIUM / LOW	

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