

Lubrizol Advanced Materials Pearlstick® 45-90/03 Polycaprolactone based TPU

Category : Polymer , Thermoplastic , Polyurethane, TP

Material Notes:

Pearlstick® 45-90/03 is an elastic, linear, aromatic polyurethane, supplied in form of white spherical granules with a small amount of anti-adherent in the formulation. It has a low crystallization rate and a low thermoplasticity level. Solubility: Pearlstick® 45-90/03 is soluble in Acetone, Methyl Ethyl Ketone (MEK), Cyclohexanone, Dimethyl Formamide, and Tetrahydrofuran (THF). The solvents and diluents should be water-free (max. 0.1 %), so as to avoid subsequent side reactions during crosslinking with isocyanate. It should be dissolved in closed tanks, and the use of a variable speed agitator is advisable. The final viscosity figures can vary, depending on the stirring process and on the solvent/diluents ratios Applications: Pearlstick® 45-90/03 is used for the production of adhesives for different kinds of materials such as leather, textiles, rubber and a variety of plastics (plasticized PVC, PU elastomers, etc.). Pearlstick® 45-90/03 enables the production of adhesives with high solids content and low viscosity, which have a very long open-time, which makes them advisable for the shoe industry, as one- or two-component adhesives. The addition of a polyfunctional isocyanate to improves the heat-resistance and the strength of the joints. Information provided by Merquinsa

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lubrizol-Advanced-Materials-Pearlstick-45-9003-Polycaprolactone-based-TPU.php

Physical Properties	Metric	English	Comments
Density	1.19 g/cc	0.0430 lb/in ³	ISO 2781
Brookfield Viscosity	150 - 450 cP	150 - 450 cP	Brookfield RVF sp 2, 20 rpm, Solution 15% MEK (MQSA n ^o 55 A); MQSA 40A

Processing Properties	Metric	English	Comments
Processing Temperature	40.0 °C	104 °F	Min. Activation Temp; EN 12961

Descriptive Properties	Value	Comments
Crystallization Rate (MQSA n ^o 12 A)	LOW	
Hydrolysis Resistance	Good	MQSA 34B
Hydroxyl Number	0.1%	MQSA 47A
Solubility - Acetone / Ethyl Acetate	60:40	
Solubility - Acetone / Toluene	50:50	
Solubility - MEK / Toluene	70:30	
Solubility - MEK/ Ethyl Acetate	80:20	
Thermoplasticity Range (MQSA n ^o 58)	LOW	

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