

Lubrizol Advanced Materials Pearlstick® 45-60/03 Polycaprolactone based TPU

Category : Polymer , Thermoplastic , Polyurethane, TP

Material Notes:

Pearlstick® 45-60/03 is an elastic, linear, aromatic polyurethane, supplied in form of white spherical granules with an extremely high crystallization rate and a medium thermoplasticity level. Solubility: Pearlstick® 45-60/03 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® 45-60/03 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® 45-60/03 is used for the production of adhesives for plasticized PVC to plasticized PVC or other materials such as leather, textiles, rubber, etc. Pearlstick® 45-60/03 enables the production of adhesives with high solids content and low viscosity, which are intended for spray application in the automotive industry and with high performances in the green-strength of the joints and temperature resistance. The addition of a polyfunctional isocyanate 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-45-6003-Polycaprolactone-based-TPU.php

Physical Properties	Metric	English	Comments
Density	1.19 g/cc	0.0430 lb/in ³	ISO 2781
Brookfield Viscosity	200 - 400 cP	200 - 400 cP	Brookfield RVF sp 2, 20 rpm, Solution 15% MEK (MQSA n _D ²⁰ 55 A); MQSA 40A

Processing Properties	Metric	English	Comments
Processing Temperature	50.0 Â°C	122 Â°F	Min. Activation Temp; EN 12961

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

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