

Lubrizol Advanced Materials Pearlstick® 45-60/08 Polycaprolactone based TPU

Category : Polymer , Thermoplastic , Polyurethane, TP

Material Notes:

Pearlstick® 45-60/14 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® 45-60/14 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® 45-60/14 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:

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lubrizol-Advanced-Materials-Pearlstick-45-6008-Polycaprolactone-based-TPU.php

Physical Properties	Metric	English	Comments
Density	1.19 g/cc	0.0430 lb/in ³	ISO 2781
Brookfield Viscosity	650 - 950 cP	650 - 950 cP	Brookfield RVF sp. 2, 20 rpm, Solution 15% MEK (MQSA n ^o 55 A); MQSA 40A

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

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

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