

Lubrizol Advanced Materials Pearlstick® D40-70/03 Linear Thermoplastic Polyurethane

Category : Polymer , Thermoplastic , Polyurethane, TP

Material Notes:

Pearlstick® D40-70/03 is an elastic, linear, aromatic polyurethane, supplied in form of white spherical granules with an extremely high crystallization rate and a very low thermoplasticity level. Solubility: Pearlstick® D40-70/03 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® D40-70/03 gives transparent solutions. It they 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: A safety data sheet on Pearlstick® D40-70/03 is available, with all safety information. When solutions are prepared, the usual safety practices in the handling of chemicals should be observed, i.e.: good ventilation in the working area, good skin protection and protective goggles. Information provided by Merquinsa

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lubrizol-Advanced-Materials-Pearlstick-D40-7003-Linear-Thermoplastic-Polyurethane.php

Physical Properties	Metric	English	Comments
Density	1.18 g/cc	0.0426 lb/in ³	ISO 2781
Brookfield Viscosity	100 - 500 cP	100 - 500 cP	Brookfield RVF sp 2, 20 rpm, Solution 15% MEK (MQSA N° 55 A); MQSA 40A

Processing Properties	Metric	English	Comments
Processing Temperature	60.0 °C	140 °F	EN-12961

Descriptive Properties	Value	Comments
Color	White	
Crystallization Rate	Extremely High	
Heat Resistance	Excellent	MQSA 11F
Hydroxyl Number	0.001	MQSA 47A
Thermoplasticity Level	Very Low	

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