

Lubrizol Advanced Materials Pearlstick® 46-10/12 Polyester based TPU

Category : Polymer , Thermoplastic , Polyurethane, TP , Thermoplastic Polyurethane (TPUR), Polyester Grade

Material Notes:

Pearlstick® 46-10/12 is an elastic, linear, aromatic polyurethane, supplied in form of white spherical granules with a very high crystallization rate and a high thermoplasticity level. Solubility: Pearlstick® 46-10/12 is soluble in Methylene chloride, Acetone, Methyl Ethyl Ketone (MEK), Ethyl Acetate and Tetrahydrofuran (THF). Diluting solvents such as Toluene can be added in large amounts. 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® 46-10/12 is used for the production of adhesives for plasticized PVC to plasticized PVC or other materials such as leather, textiles, metals, paper, etc. It can be used in the shoe industry as an adhesion promoter in the process of injection of PVC soles to the uppers Pearlstick® 46-10/12 can be used as a two-component adhesive in furniture making, since two-component adhesives are advisable for the lamination of PVC films. 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-46-1012-Polyester-based-TPU.php

Physical Properties	Metric	English	Comments
Density	1.19 g/cc	0.0430 lb/in ³	ISO 2781
Brookfield Viscosity	1000 - 1400 cP	1000 - 1400 cP	Brookfield RVF sp 3, 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)	VERY HIGH	
Hydroxyl Number	0.1%	MQSA 47A
Solubility - Acetone / Ethyl Acetate	0:100	
Solubility - Acetone / Toluene	10:90	
Solubility - MEK / Toluene	20:80	
Solubility - MEK/ Ethyl Acetate	0:100	
Thermoplasticity Range (MQSA n ^o 58)	HIGH	

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