

Lubrizol Advanced Materials Pearlstick® 45-50/29 Linear Thermoplastic Polyurethane Elastomer

Category : Polymer , Thermoplastic , Polyurethane, TP

Material Notes:

Pearlstick® 45-50/29 is an elastic, linear, aromatic polyurethane with an extremely high crystallization rate and a medium-low thermoplasticity level, available as pellets. Solubility: Pearlstick® 45-50/29 is soluble in acetone, methyl ethyl ketone (MEK), cyclohexanone, dimethyl formamide, tetrahydrofuran (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 isocyanates. Solutions: Pearlstick® 45-50/29 should be dissolved in closed tanks, and the use of a variable speed agitator is advised. The final viscosity figures can vary, depending on the stirring process and on the solvent/diluents ratios. Applications: Pearlstick® 45-50/29 is used for the production of adhesives for bonding plasticized PVC to plasticized PVC or other materials such as leather, textiles, rubber, in the shoe industry. Pearlstick® 45-50/29 has a good heat resistance and improved freeze resistance and can be used as a one-component adhesive, although the addition of a poly-functional isocyanate improves the heat-resistance.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lubrizol-Advanced-Materials-Pearlstick-45-5029-Linear-Thermoplastic-Polyurethane-Elastomer.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.19 g/cc	1.19 g/cc	ISO 2781
Brookfield Viscosity	2400 - 3200 cP @Temperature 20.0 °C	2400 - 3200 cP @Temperature 68.0 °F	Brookfield RVF sp. 2, 20 rpm solution at 15% in MEK; MQSA NO 40A

Processing Properties	Metric	English	Comments
Processing Temperature	>= 55.0 °C	>= 131 °F	Activation Temperature; EN-12961

Descriptive Properties	Value	Comments
Color	white or slightly yellowish	
Crystallization Rate	Extremely High	
Hydrolysis Resistance	Good	MQSA 34B
Hydroxyl Content	Approx. 0.1%	MQSA 47A
Thermoplasticity Range	Medium-low	

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