

Lubrizol Advanced Materials Pearlstick® 45-50/05 Linear Thermoplastic Polyurethane Elastomer (discontinued **)

Category : Polymer , Thermoplastic , Polyurethane, TP

Material Notes:

Pearlstick® 45-50/05 is an elastic, linear, aromatic polyurethane with an extremely high crystallization rate and a medium-low thermoplasticity level, available as pellets. Solubility: Pearlstick® 45-50/05 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® 45-50/05 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® 45-50/05 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® 45-50/05 enables the production of adhesives for spray application for the automotive and other industrial uses. Pearlstick® 45-50/05 has a good heat resistance and improved freeze resistance. The addition of a poly-functional isocyanate improves the heat-resistance and the strength of bonding.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lubrizol-Advanced-Materials-Pearlstick-45-5005-Linear-Thermoplastic-Polyurethane-Elastomer-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.19 g/cc	1.19 g/cc	
Brookfield Viscosity	400 - 800 cP @Temperature 20.0 °C	400 - 800 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

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

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