

Lubrizol Advanced Materials Pearlstick® 49-46/03 Linear Thermoplastic Polyurethane Elastomer (discontinued **

Category : Polymer , Thermoplastic , Polyurethane, TP

Material Notes:

Pearlstick® 49-46/03 is an elastic, linear, aromatic polyurethane with a very high crystallization rate and a low thermoplasticity level, available as pellets. Solubility: Pearlstick® 49-46/03 is soluble in acetone, methyl ethyl ketone (MEK), cyclohexanone, dimethyl formamide and 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® 49-46/03 gives transparent solutions. It should be dissolved in closed tanks, and the use of high shear equipment is advised. The final viscosity figures can vary, depending on the stirring process and on the solvent/diluents ratios. Applications: Pearlstick® 49-46/03 is used for the production of adhesives for bonding plasticized PVC to plasticized PVC or other materials such as leather, textiles, rubber, etc. Pearlstick® 49-46/03 enables the production of adhesives with high solids content and low viscosity, which are intended for spray application in the automotive industry and with high performances in the green-strength of the joints and temperature resistance. The addition of a poly-functional isocyanate improves the heat-resistance and the strength of the joints.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lubrizol-Advanced-Materials-Pearlstick-49-4603-Linear-Thermoplastic-Polyurethane-Elastomer-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.19 g/cc	1.19 g/cc	
Brookfield Viscosity	200 - 400 cP @Temperature 20.0 °C	200 - 400 cP @Temperature 68.0 °F	Brookfield RVF sp. 3, 20 rpm solution at 15% in MEK; MQSA N° 40A

Processing Properties	Metric	English	Comments
Processing Temperature	>= 65.0 °C	>= 149 °F	Activation Temperature

Descriptive Properties	Value	Comments
Color	white or slightly yellowish	
Crystallization Rate	Very High	
Freezing Resistance	Very good	MQSA N° 90
Heat Resistance	Excellent	
Hydroxyl Content	Approx. 0.1%	
Thermoplasticity Range	Low	

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