

## Lubrizol Advanced Materials Pearlstick® 48-60/15 Linear Thermoplastic Polyurethane Elastomer

Category : Polymer , Thermoplastic , Polyurethane, TP

### Material Notes:

Pearlstick® 48-60/15 is an elastic, linear, aromatic polyurethane with a very high crystallization rate and a low-medium thermoplasticity level, available as pellets. Solubility: Pearlstick® 48-60/15 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® 48-60/15 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® 48-60/15 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. The addition of a poly-functional isocyanate improves the performance of the adhesive.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Lubrizol-Advanced-Materials-Pearlstick-48-6015-Linear-Thermoplastic-Polyurethane-Elastomer.php](http://www.lookpolymers.com/polymer_Lubrizol-Advanced-Materials-Pearlstick-48-6015-Linear-Thermoplastic-Polyurethane-Elastomer.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.19 g/cc	1.19 g/cc	ISO 2781
Brookfield Viscosity	1100 - 1700 cP @Temperature 20.0 °C	1100 - 1700 cP @Temperature 68.0 °F	Brookfield RVF sp. 6, 20 rpm solution at 15% in MEK; MQSA NO 40A

Processing Properties	Metric	English	Comments
Processing Temperature	>= 60.0 °C	>= 140 °F	Activation Temperature; EN-12961

Descriptive Properties	Value	Comments
Color	white or slightly yellowish	
Crystallization Rate	Very High	
Freezing Resistance	Very good	MQSA 90
Heat Resistance	Excellent	MQSA 11E
Hydroxyl Content	Approx. 0.1%	MQSA 47A
Thermoplasticity Range	Low-medium	

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