

PEARLSTICK® 48-60/03

Thermoplastic Polyurethane Elastomer (Polyester)

Lubrizol Advanced Materials, Inc.

Message:

Pearlstick® 48-60/03 is an elastic, linear, aromatic polyurethane, supplied in form of white spherical granules with a very high crystallization rate and a medium-low thermoplasticity level.

Pearlstick ® 48-60/03 is used for the production of adhesives for plasticized PVC to plasticized PVC or other materials such as leather, textiles, rubber, etc.

Pearlstick ® 48-60/03 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 polyfunctional isocyanate improves the heat-resistance and the strength of the joints.

General Information			
Features	Aroma		
	Heat resistance, high		
Uses	Textile bonding		
	Adhesive		
Appearance	White		
Forms	Particles		
Physical	Nominal Value	Unit	Test Method
Density (20°C)	1.19	g/cm³	ISO 2781
Viscosity ¹ (20°C)	200 - 600	mPa · s	Internal method
Freeze/Thaw Resistance	Very Good		Internal method
Heat Resistance	Excellent		Internal method
Hydroxyl Value	0.10	%	Internal method
Activation temperature	> 60	°C	EN 12961
Additional Information	Nominal Value	Unit	Test Method

SOLUBILITYPearlstick® 48-60/03 is soluble in Acetone, Methyl Ethyl Ketone (MEK), Cyclohexanone, Dimethyl formamide, (DMF),Tetrahydrofurane (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 isocyanate.Pearlstick ® 48-60/03 gives transparent solutions. It they should be dissolved in closed tanks and the use of high shear equipments is advisable. The final viscosity figures can vary, depending on the stirring process and on the solvent/diluents ratios.

NOTE	
1.	Brookfield RVF sp 2, 20 rpm. Solution at 15% in MEK

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