

PEARLSTICK® 45-50/03

Thermoplastic Polyurethane Elastomer (Polycaprolactone)

Lubrizol Advanced Materials, Inc.

Message:

PEARLSTICK™ 45-50/03 is an elastic, linear, aromatic polyurethane with an extremely high crystallization rate and a medium-low thermoplasticity level.

APPLICATIONS

PEARLSTICK™ 45-50/03 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™ 45-40/03 enables the production of adhesives for spray application for the automotive and other industrial uses.

PEARLSTICK™ 45-50/03 has a good heat resistance and improved freeze resistance. The addition of a poly-functional isocyanate improves the heat-resistance and the strength of the bonding.

General Information			
Features	Good Heat Resistance		
	Aroma		
	Crystallization		
	Linear polymer structure		
Uses	Textile bonding		
	Industrial application		
	Application in Automobile Field		
	Footwear		
	Adhesive		
Appearance	White		
	Yellow		
Forms	Particle		
Physical	Nominal Value	Unit	Test Method
Density (20°C)	1.19	g/cm ³	
Viscosity ¹ (20°C)	200 - 400	mPa · s	Internal method
Hydrostatic Resistance	Good		Internal method
Hydroxyl Value	0.10	%	Internal method
Activation temperature	55	°C	
Additional Information	Nominal Value	Unit	Test Method

SOLUBILITY PEARLSTICK™ 45-50/03 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™ 45-50/03 should be dissolved in closed tanks, and the use of a variable speed agitator is advisable. The final viscosity figures can vary, depending on the stirring process and on the solvent/diluents ratios. Please see our technical sheet on "Process for obtaining solutions based on PEARLSTICK™".

NOTE

1. Brookfield RVF sp.2, 20 rpm
solution at 15% in MEK)

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