

PEARLSTICK® 45-90/03

Thermoplastic Polyurethane Elastomer (Polycaprolactone)

Lubrizol Advanced Materials, Inc.

Message:

Pearlstick® 45-90/03 is an elastic, linear, aromatic polyurethane, supplied in form of white spherical granules with a small amount of anti-adherent in the formulation. It has a low crystallization rate and a low thermoplasticity level.

APPLICATIONS:

Pearlstick® 45-90/03 is used for the production of adhesives for different kinds of materials such as leather, textiles, rubber and a variety of plastics (plasticized PVC, PU elastomers, etc.).

Pearlstick® 45-90/03 enables the production of adhesives with high solids content and low viscosity, which have a very long open-time, which makes them advisable for the shoe industry, as one- or two-component adhesives. The addition of a polyfunctional isocyanate to improves the heat-resistance and the strength of the joints.

General Information			
Features	Aroma		
	Hydrolysis resistance		
Uses	Adhesive		
Appearance	White		
Forms	Particles		
Physical	Nominal Value	Unit	Test Method
Density (20°C)	1.19	g/cm ³	ISO 2781
Viscosity ¹ (20°C)	150 - 450	mPa · s	Internal method
Hydrostatic Resistance	Good		Internal method
Hydroxyl Value	0.10	%	Internal method
Activation temperature	40	°C	EN 12961
Additional Information	Nominal Value	Unit	Test Method
SOLUBILITY: Pearlstick® 45-90/03 is soluble in Acetone, Methyl Ethyl Ketone (MEK), Cyclohexanone, Dimethyl Formamide, and Tetrahydrofuran (THF). The solvents and diluents should be water-free (max. 0.1 %), so as to avoid subsequent side reactions during crosslinking with isocyanate. It 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			
NOTE			

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

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