

PEARLSTICK® 45-40/27

Thermoplastic Polyurethane Elastomer (Polycaprolactone)

Lubrizol Advanced Materials, Inc.

Message:

Pearlstick® 45-40/27 is an elastic, linear, aromatic polyurethane, supplied in form of white spherical granules with a very high crystallisation rate and a medium thermoplasticity level.

APPLICATIONS

Pearlstick® 45-40/27 is used for the production of adhesives for bonding plasticized PVC to plasticized PVC or other materials such as leather, textiles, etc.

Pearlstick® 45-40/27 has good resistance to temperature, although the addition of a polyfunctional isocyanate improves the heat-resistance still further.

General Information			
Features	Aroma		
	Heat resistance, medium		
	Hydrolysis resistance		
Uses	Textile bonding		
	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)	2.50 - 2.90	Pa · s	Internal method
Hydrostatic Resistance	Good		Internal method
Hydroxyl Value	0.10	%	Internal method
Activation temperature	45	°C	EN 12961
Additional Information	Nominal Value	Unit	Test Method
SOLUBILITY: Pearlstick® 45-40/27 is soluble in Acetone, Methyl Ethyl Ketone (MEK), Cyclohexanone, Dimethyl formamide, (DMF), 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 isocyanate. Pearlstick® 45-40/27 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 5, 20 rpm. Solution 15% MEK		

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