

# PEARLSTICK® 45-40/08

Thermoplastic Polyurethane Elastomer (Polycaprolactone)

Lubrizol Advanced Materials, Inc.

## Message:

45-40/08 is an elastic, linear, aromatic polyurethane with a very high crystallization rate and a medium thermoplasticity level.

APPLICATIONS: 45-40/08 is used for the production of adhesives for bonding plasticized PVC to plasticized PVC or other materials such as leather, textiles, etc. 45-40/08 enables the production of adhesives for spray application for the automotive and other industrial uses. The addition of a polyfunctional isocyanate improves the heat-resistance and the strength of the joints.

General Information			
Features	Aroma		
	Hydrolysis resistance		
Uses	Textile bonding		
	Industrial application		
	Application in Automobile Field		
	Adhesive		
Appearance	White		
Forms	Particles		
Physical	Nominal Value	Unit	Test Method
Density (20°C)	1.19	g/cm <sup>3</sup>	ISO 2781
Viscosity <sup>1</sup> (20°C)	650 - 950	mPa · 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 ® 45-40/08 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 ® 45-40/08 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 15% MEK

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