

# PEARLSTICK® 45-50/29

Thermoplastic Polyurethane Elastomer (Polycaprolactone)

Lubrizol Advanced Materials, Inc.

## Message:

Pearlstick ® 45-50/29 : is an elastic, linear, aromatic polyurethane, supplied in form of white spherical granules with an extremely high crystallization rate and a medium-low thermoplasticity level.

Pearlstick ® 45-50/29 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 ® 45-50/29 has a good heat resistance and improved freeze resistance, and can be used as a one-component adhesive, although the addition of a polyfunctional isocyanate improves the heat-resistance.

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 <sup>3</sup>	ISO 2781
Viscosity <sup>1</sup> (20°C)	2.40 - 3.20	Pa · s	Internal method
Hydrostatic Resistance	Good		Internal method
Hydroxyl Value	0.10	%	Internal method
Activation temperature	55	°C	EN 12961
Additional Information	Nominal Value	Unit	Test Method
SOLUBILITY Pearlstick ® 45-50/29 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 ® 45-50/29 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 5, 20 rpm. Solution 15% MEK		

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Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: [sales@su-jiao.com](mailto:sales@su-jiao.com)

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

