

PEARLSTICK® 45-80/16

Thermoplastic Polyurethane Elastomer (Polycaprolactone)

Lubrizol Advanced Materials, Inc.

Message:

Pearlstick® 45-80/16 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 very low crystallization rate and very low thermoplasticity level. Pearlstick® 45-80/16 is adequate for bonding processes that do not require heat activation (cold bonding).

APPLICATIONS

Pearlstick® 45-80/16 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® 45-80/16 allows the production of adhesives with a very long open-time, which can be used without requiring heat activation.

The addition of Pearlstick® 45-80/16 to other different types of Pearlstick® increases their open-times.

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)	1.40 - 1.80	Pa·s	Internal method
Hydrostatic Resistance	Good		Internal method
Hydroxyl Value	0.10	%	Internal method
Additional Information	Nominal Value	Unit	Test Method

SOLUBILITY: Pearlstick® 45-80/16 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 4, 20 rpm.
Solution at 15% in MEK

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Recommended distributors for this material

Susheng Import & Export Trading Co., Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

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

