

PEARLSTICK® 45-60/18

Thermoplastic Polyurethane Elastomer (Polycaprolactone)

Lubrizol Advanced Materials, Inc.

Message:

Pearlstick® 45-60/18 is an elastic, linear, aromatic polyurethane, supplied in form of white spherical granules with an extremely high crystallization speed and a low thermoplasticity level.

APPLICATIONS:

Pearlstick® 45-60/18 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. The adhesives based on Pearlstick® 45-60/18 show:

High green strength values.

Easier heat activation (wide range of activation temperatures).

Long and high hot-tack (tack retention).

Pearlstick® 45-60/18 may be suitable as a raw material for the production of one-component adhesives.

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)	1.60 - 2.00	Pa·s	Internal method
Hydrostatic Resistance	Good		Internal method
Hydroxyl Value	0.10	%	Internal method
Activation temperature	50	°C	EN 12961
Additional Information	Nominal Value	Unit	Test Method

SOLUBILITY: Pearlstick® 45-60/18 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® 45-60/18 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.6, 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

