

PEARLSTICK® 46-10/12

Thermoplastic Polyurethane Elastomer (Polyester)

Lubrizol Advanced Materials, Inc.

Message:

Pearlstick® 46-10/12 is an elastic, linear, aromatic polyurethane, supplied in form of white spherical granules with a very high crystallization rate and a high thermoplasticity level.

APPLICATIONS:

Pearlstick® 46-10/12 is used for the production of adhesives for plasticized PVC to plasticized PVC or other materials such as leather, textiles, metals, paper, etc. It can be used in the shoe industry as an adhesion promoter in the process of injection of PVC soles to the uppers.

Pearlstick® 46-10/12 can be used as a two-component adhesive in furniture making, since two-component adhesives are advisable for the lamination of PVC films.

The addition of a polyfunctional isocyanate to improves the heat-resistance and the strength of the joints.

General Information			
Features	Aroma		
Uses	Textile bonding		
	Metal 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)	1.00 - 1.40	Pa · s	Internal method
Hydroxyl Value	0.10	%	Internal method
Activation temperature	50	°C	EN 12961
Additional Information	Nominal Value	Unit	Test Method
SOLUBILITY: Pearlstick® 46-10/12 is soluble in Methylene chloride, Acetone, Methyl Ethyl Ketone (MEK), Ethyl Acetate and Tetrahydrofurane (THF). Diluting solvents such as Toluene can be added in large amounts. 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.3, 20 rpm
solution at 15% in MEK

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