

Technical Data Sheet

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.

SPECIFICATION

Viscosity @ 20°C (Brookfield RVF sp 3, 20 rpm.)* **1000–1400 mPa.s** **MQSA 40A**

*Solution 15% MEK (MQSA N° 55 A)

Property	Typical Values*	Test Method
Density @ 20°C	1.19 g/cm ³	ISO 2781
Hydroxyl number	Approx. 0.1%.	MQSA 47A
Minimum Activation Temperature	Approx. 50°C	EN-12961

*These are typical values & should not be used for establishing specifications.

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

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.

HEALTH AND SAFETY

A safety data sheet on **Pearlstick™ 46-10/12** is available, with all safety information. When solutions are prepared, the usual safety practices in the handling of chemicals should be observed, i.e.: good ventilation in the working area, good skin protection and protective goggles.

PACKAGING

PE bags of 25 Kg. net. Bags are shipped on pallets of 750 Kg.

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STORAGE

Pearlstick™ 46-10/12 must be stored in a cool (15–25°C) and environment prior to being processed. Standard practice of consuming resin on first-in first-out basis should be employed.

For further information refer to Lubrizol Advanced Materials processing guides.

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