

Technical Data Sheet

Pearlstick™ 45-90/03 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 low crystallization rate and a low thermoplasticity level.

SPECIFICATION

Viscosity @ 20°C (Brookfield RVF sp 2, 20 rpm.)* **150–450 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
Hydrolysis resistance	Good	MQSA 34B
Minimum Activation Temperature	Approx. 40°C	EN-12961

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

SOLUBILITY

Pearlstick™ 45-90/03 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

APPLICATIONS

Pearlstick™ 45-90/03 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™ 45-90/03 enables the production of adhesives with high solids content and low viscosity, which have a very long open-time, which makes them advisable for the shoe industry, as one- or two-component adhesives. 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™ 45-90/03** 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™ 45-90/03 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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