

Technical Data Sheet

Pearlstick™ 45-50/18 is an elastic, linear, aromatic polyurethane, supplied in form of white spherical granules with an extremely high crystallization rate and a medium-low thermoplasticity level.

SPECIFICATION

Viscosity @ 20°C (Brookfield RVF sp 5, 20 rpm.)* **1600–2000 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. 55°C	EN-12961

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

SOLUBILITY

Pearlstick™ 45-50/18 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™ 45-50/18 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.

APPLICATIONS

Pearlstick™ 45-50/18 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.

Pearlstick™ 45-50/18 has a good heat resistance and improved freeze resistance, and can be used as a one-component adhesive, although the addition of a polyfunctional isocyanate improves the heat-resistance.

HEALTH AND SAFETY

A safety data sheet on **Pearlstick™ 45-50/18** 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™ 45-50/18 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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