

## Technical Data Sheet

**Pearlstick™ 45-60/03** is an elastic, linear, aromatic polyurethane, supplied in form of white spherical granules with an extremely high crystallization rate and a medium thermoplasticity level.

### SPECIFICATION

**Viscosity @ 20°C (Brookfield RVF sp 2, 20 rpm.)\***      **200–400 mPa.s**      **MQSA 40A**

\*Solution 15% MEK (MQSA N° 55 A)

Property	Typical Values*	Test Method
Density @ 20°C	1.19 g/cm <sup>3</sup>	ISO 2781
Hydroxyl number	Approx. 0.1%.	MQSA 47A
Hydrolysis resistance	Good	MQSA 34B
Minimum Activation Temperature	Approx. 50°C	EN-12961

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

### SOLUBILITY

**Pearlstick™ 45-60/03** is soluble in Acetone, Methyl Ethyl Ketone (MEK), Cyclohexanone, Dimethyl formamide, (DMF), Tetrahydrofurane (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™ 45-60/03** 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™ 45-60/03** is used for the production of adhesives for plasticized PVC to plasticized PVC or other materials such as leather, textiles, rubber, etc.

**Pearlstick™ 45-60/03** enables the production of adhesives with high solids content and low viscosity, which are intended for spray application in the automotive industry and with high performances in the green-strength of the joints and temperature resistance.

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

### HEALTH AND SAFETY

A safety data sheet on **Pearlstick™ 45-60/03** 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.

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

**STORAGE**

**Pearlstick™ 45-60/03** 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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