

Technical Data Sheet

PEARLSTICK™ 45-60/03SP is an elastic, linear, aromatic polyurethane with an extremely high crystallization rate and a medium thermoplasticity level.

PRODUCT SPECIFICATIONS

Supply form

:White or slightly yellowish pellets.

(The mentioned colour difference does not affect the quality of the adhesive)

Viscosity @ 20°C

(Brookfield RVF sp.2, 20 rpm solution at 15% in MEK)

:200–400 mPa.s

(MQSA N° 40 A)

PRODUCT CHARACTERISTICS

Density @ 20°C :Approx. 1.19 g/cm³.

Hydroxyl number :Approx. 0.1%

Hydrolysis Resistance :Good

Minimum Activation Temperature :Approx. 50°C.

SOLUBILITY

PEARLSTICK™ 45-60/03SP is soluble in Acetone, MEK, Cyclohexanone, Dimethyl formamide, 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 isocyanates.

SOLUTIONS

PEARLSTICK™ 45-60/03SP gives transparent solutions, it should be dissolved in closed tanks; 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.

Please see our technical sheet on **""Process for obtaining solutions based on PEARLSTICK™""**.

APPLICATIONS

PEARLSTICK™ 45-60/03SP is used for the production of adhesives for plasticized PVC to plasticized PVC or other materials such as leather, textile, rubber, etc.

PEARLSTICK™ 45-60/03SP enables the production of adhesives with high solids content and low viscosity, intended for spray application in the automotive industry. The resulting joints exhibit high green strength and heat resistance.

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

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HEALTH AND SAFETY

A safety data sheet on **PEARLSTICK™ 45-60/03SP** 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 containing 25 Kg. (net weight).

Pallets of 750 Kg. (net weight).

STORAGE

PEARLSTICK™ 45-60/03SP 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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