

Technical Data Sheet

PEARLSTICK™ 45-60/18SP is an elastic, linear, aromatic polyurethane with an extremely high crystallization speed and a low 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

:1600–2000 mPa.s (MQSA N° 40 A)

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

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™ 45-60/18SP 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™ 45-60/18SP 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™""**.

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APPLICATIONS

PEARLSTICK™ 45-60/18SP is used for the production of adhesives for bonding plasticized PVC to plasticized PVC or other materials such as leather, textile, rubber, elastomeric PU etc. in the shoe industry.

The adhesives based on **PEARLSTICK™ 45-60/18SP** show:

- Transparent appearance.
- Good spray application.
- High green strength values.
- Easy heat activation (wide range of activation temperatures).
- Long and high hot-tack (tack retention).

PEARLSTICK™ 45-60/18SP can be used as a raw material for the production of one-component adhesives.

HEALTH AND SAFETY

A safety data sheet on **PEARLSTICK™ 45-60/18SP** 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™ 45-60/18SP 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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