

PEARLSTICK® 45-90/16

Linear Thermoplastic Polyurethane

PEARLSTICK® 45-90/16 is an elastic, linear, aromatic polyurethane with a low crystallization rate and a low thermoplasticity level.

PRODUCT SPECIFICATIONS

Supply form

: White or slightly yellowish pellets with a small amount of antiadherent in the formulation.

(The mentioned colour differences do not affect the quality of the adhesive).

Viscosity @ 20°C

(Brookfield RVF sp.3, 20 rpm solution at 15% in MEK)

: 1400 - 1800 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. 40 °C.

SOLUBILITY

PEARLSTICK® 45-90/16 is soluble in acetone, methyl ethyl ketone (MEK), cyclohexanone, dimethyl formamide, 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 isocyanates.

SOLUTIONS

PEARLSTICK® 45-90/16 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.

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

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APPLICATIONS

PEARLSTICK® 45-90/16 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® 45-90/16 enables the production of adhesives with a very long open-time, which can be used as one- or two-component adhesives.

The addition of **PEARLSTICK® 45-90/16** to other different grades of **PEARLSTICK®** increases their open-times.

HEALTH AND SAFETY

A safety data sheet on **PEARLSTICK® 45-90/16** 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 kgs. n.w.
Pallets of 750 kgs. n.w.

STORAGE

PEARLSTICK® 45-90/16 should be stored in a **cool (15-25°C) and dry place**, for periods that should not exceed 6 months, in well-closed packaging.