

Technical Data Sheet

PEARLSTICK™ 45-40/05 is an elastic, linear, aromatic polyurethane with a very high crystallization rate and a medium thermoplasticity level.

PRODUCT SPECIFICATIONS

Supply form : *White or slightly yellowish pellets without talcum or any other antiadherents in the formulation.*
(The mentioned colour differences do not affect the quality of the adhesive)

Viscosity @ 20°C : **350–650 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. 45°C.

SOLUBILITY

PEARLSTICK™ 45-40/05 is soluble in acetone, methyl ethyl ketone (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™ 45-40/05 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™**".

APPLICATIONS

PEARLSTICK™ 45-40/05 is used for the production of adhesives for bonding plasticized PVC to plasticized PVC or other materials such as leather, textiles, etc.

PEARLSTICK™ 45-40/05 enables the production of adhesives for spray application for the automotive and other industrial uses.

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

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HEALTH AND SAFETY

A safety data sheet on **PEARLSTICK™ 45-40/05** 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™ 45-40/05 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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