PEARLSTICK® 45-90/03

Linear Thermoplastic Polyurethane

PEARLSTICK® 45-90/03 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 @ 20ºC *(Brookfield RVF sp.3, 20 rpm solution at 15% in MEK)*	***: 150 - 450 mPa.s***	*(MQSA Nº 40 A)*

PRODUCT CHARACTERISTICS

Density @ 20ºC	: Approx. 1.19 g/cm^3.
Hydroxyl number	: Approx. 0.1 %
Hydrolysis Resistance	: Good
Minimum Activation Temperature	: Approx. 40 ºC.

SOLUBILITY

PEARLSTICK® 45-90/03 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® 45-90/03 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®**".

All information and advice are provided without warranty including in the case of the rights of third parties, the client being at all times responsible for testing the products and for their application, use and processing. All products are sold subject to Merquinsa General Terms of Business.

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APPLICATIONS

PEARLSTICK® 45-90/03 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® 45-90/03 enables the production of adhesives with high solids content and low viscosity, which have a very long open-time, which makes them advisable for the shoe industry, as one- or two-component adhesives.

HEALTH AND SAFETY

A safety data sheet on **PEARLSTICK® 45-90/03** 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.

PACKAGING

PE bags containing 25 kgs. n.w.
Pallets of 750 kgs. n.w.

STORAGE

PEARLSTICK® 45-90/03 should be stored in a **cool (15-25ºC) and dry place**, for periods that should not exceed 6 months, in well-closed packaging.

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