

Technical Data Sheet

PEARLSTICK[™] **45-40/11S** 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 :900–1300 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[™] **45-40/11S** is soluble in acetone, methyl ethyl ketone (MEK), cyclohexanone, dimethyl formamide, tetrahydrofurane (THF). Diluting solvents such as toluene, 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[™] **45-40/11S** 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[™] **45-40/11S** is used for the production of adhesives for bonding plasticized PVC to plasticized PVC, leather/rubber and other materials commonly used in the shoe industry.

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**[™] **45-40/11S** 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[™] **45-40/11S** 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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