

PEARLSTICK® 45-50/08

Linear Thermoplastic Polyurethane

PEARLSTICK® 45-50/08 is an elastic, linear, aromatic polyurethane with an extremely high crystallization rate and a medium-low thermoplasticity level.

PRODUCT SPECIFICATIONS

<i>Supply form</i>	<i>: White or slightly yellowish pellets</i> <i>(The mentioned colour difference does not affect the quality of the adhesive)</i>
<i>Viscosity @ 20°C</i> <i>(Brookfield RVF sp.2, 20 rpm solution at 15% in MEK)</i>	<i>:800 - 1200 mPa.s</i> (MQSA N° 40 A)

PRODUCT CHARACTERISTICS

Density @ 20°C	: Approx. 1.19 g/cm ³ .
Hydroxyl number	: Approx. 0.1 %
Hydrolysis Resistance	: Good
Minimum Activation Temperature	: Approx. 55 °C.

SOLUBILITY

PEARLSTICK® 45-50/08 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® 45-50/08 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® 45-50/08 is used for the production of adhesives for bonding plasticized PVC to plasticized PVC or other materials such as leather, textiles, rubber, in the shoe industry.

PEARLSTICK® 45-50/08 enables the production of adhesives for spray application for the automotive and other industrial uses.

PEARLSTICK® 45-50/08 has a good heat resistance and improved freeze resistance. The addition of a poly-functional isocyanate improves the heat-resistance and the strength of the bonding.

HEALTH AND SAFETY

A safety data sheet on **PEARLSTICK® 45-50/08** 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® 45-50/08 should be stored in a **cool (15-25°C) and dry place**, for periods that should not exceed 6 months, in well-closed packaging.