PEARLSTICK® 45-50/29

Linear Thermoplastic Polyurethane

PEARLSTICK® 45-50/29 is an elastic, linear, aromatic polyurethane with an extremely high crystallization rate and a medium-low thermoplasticity level.

PRODUCT SPECIFICATIONS

Supply form	***: White or slightly yellowish pellets*** *(The mentioned colour difference does not affect the quality of the adhesive)*	
Viscosity @ 20ºC *(Brookfield RVF sp.2, 20 rpm solution at 15% in MEK)*	***: 2400 - 3200 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. 55 ºC.

SOLUBILITY

PEARLSTICK® 45-50/29 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® 45-50/29 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® 45-50/29 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® 45-50/29 has a good heat resistance and improved freeze resistance and can be used as a one-component adhesive, although the addition of a polyfunctional isocyanate improves the heat-resistance.

HEALTH AND SAFETY

A safety data sheet on **PEARLSTICK® 45-50/29** 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® 45-50/29 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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