

PEARLSTICK® 46-10/12

Linear Thermoplastic Polyurethane

PEARLSTICK® 46-10/12 is an elastic, linear, aromatic polyurethane with a very high crystallization speed and a high thermoplasticity level.

PRODUCT SPECIFICATIONS

Supply form

: **White or slightly yellowish pellets.**

(The mentioned colour differences do not affect the quality of the adhesive)

Viscosity @ 20°C

(Brookfield RVF sp.2, 20 rpm solution at 15% in MEK)

: **1000 - 1400 mPa.s**

(MQSA N° 40 A)

PRODUCT CHARACTERISTICS

Density @ 20°C

: Approx. 1.19 g/cm³.

Hydroxyl number

: Approx. 0.1 %

Minimum Activation Temperature

: Approx. 50 °C.

SOLUBILITY

PEARLSTICK® 46-10/12 is soluble in methylene chloride, acetone, methyl ethyl ketone (MEK), ethyl acetate and tetrahydrofuran (THF). Diluting solvents such as toluene can be added in large amounts.

The solvents and diluents should be water-free (max. 0.1 %), so as to avoid subsequent side reactions during crosslinking with isocyanates.

SOLUTIONS

PEARLSTICK® 46-10/12 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® 46-10/12 is used for the production of adhesives for plasticized PVC to plasticized PVC or other materials such as leather, textiles, metals, paper, etc. It can be used in the shoe industry as an adhesion promoter in the process of injection of PVC soles to the uppers **PEARLSTICK® 46-10/12** can be used as a two-component adhesive in furniture making, since two-component adhesives are advisable for the lamination of PVC films.

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

HEALTH AND SAFETY

A safety data sheet on **PEARLSTICK® 46-10/12** 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

Antistatic PE bag containing 25 kg. n.w.
Pallets of 750 kg. n.w.

STORAGE

PEARLSTICK® 46-10/12 should be stored in a **cool (15-25°C) and dry place**, for periods that should not exceed 6 months, in well-closed packaging.