

# PEARLSTICK® 45-60/03

Thermoplastic Polyurethane Elastomer (Polycaprolactone)

Lubrizol Advanced Materials, Inc.

## Message:

Pearlstick® 45-60/03 is an elastic, linear, aromatic polyurethane, supplied in form of white spherical granules with an extremely high crystallization rate and a medium thermoplasticity level.

### APPLICATIONS :

Pearlstick® 45-60/03 is used for the production of adhesives for plasticized PVC to plasticized PVC or other materials such as leather, textiles, rubber, etc.

Pearlstick® 45-60/03 enables the production of adhesives with high solids content and low viscosity, which are intended for spray application in the automotive industry and with high performances in the green-strength of the joints and temperature resistance.

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

| General Information   |                       |                   |                 |
|---|-----------------------|-------------------|-----------------|
| Features  | Aroma                 |                   |                 |
|   | Hydrolysis resistance |                   |                 |
| Uses  | Adhesive              |                   |                 |
| Appearance  | White                 |                   |                 |
| Forms   | Particles             |                   |                 |
| Physical  | Nominal Value         | Unit              | Test Method     |
| Density (20°C)  | 1.19                  | g/cm <sup>3</sup> | ISO 2781        |
| Viscosity <sup>1</sup> (20°C)   | 200 - 400             | mPa · s           | Internal method |
| Hydrostatic Resistance  | Good                  |                   | Internal method |
| Hydroxyl Value  | 0.10                  | %                 | Internal method |
| Activation temperature  | 50                    | °C                | EN 12961        |
| Additional Information  | Nominal Value         | Unit              | Test Method     |
| SOLUBILITY: Pearlstick® 45-60/03 is soluble in Acetone, Methyl Ethyl Ketone (MEK), Cyclohexanone, Dimethyl formamide, (DMF), 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 isocyanate. Pearlstick® 45-60/03 should be dissolved in closed tanks and the use of high shear equipments is advisable. The final viscosity figures can vary, depending on the stirring process and on the solvent/diluents ratios. |                       |                   |                 |
| NOTE  |                       |                   |                 |

1. Brookfield RVF sp 2, 20 rpm.  
Solution at 15% in MEK

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