

PEARLSTICK® 45-40/19

Thermoplastic Polyurethane Elastomer (Polycaprolactone)

Lubrizol Advanced Materials, Inc.

Message:

Pearlstick® 45-40/19 is an elastic, linear, aromatic polyurethane, supplied in form of white spherical granules with a very high crystallization rate and a medium thermoplasticity level.

APPLICATIONS: 45-40/19 is used for the production of adhesives for bonding plasticized PVC to plasticized PVC or other materials such as leather, textiles, ect. 45-40/19 has a good temperature resistance, although the addition of a polyfunctional isocyanate improves the heat-resistance still further.

| General Information | | | |
|---|--|-------------------|-----------------|
| Features | Aroma | | |
| | Heat resistance, medium | | |
| | Hydrolysis resistance | | |
| Uses | Textile bonding | | |
| | Adhesive | | |
| Appearance | White | | |
| Forms | Particles | | |
| Physical | Nominal Value | Unit | Test Method |
| Density (20°C) | 1.19 | g/cm ³ | ISO 2781 |
| Viscosity ¹ (20°C) | 1.70 - 2.10 | Pa · s | Internal method |
| Hydrostatic Resistance | Good | | Internal method |
| Hydroxyl Value | 0.10 | % | Internal method |
| Activation temperature | 45 | °C | EN 12961 |
| Additional Information | Nominal Value | Unit | Test Method |
| SOLUBILITY: Pearlstick ® 45-40/19 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 ® 45-40/19 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. | | | |
| NOTE | | | |
| 1. | Brookfield RVF sp 4, 20 rpm. Solution 15% MEK | | |

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