

PEARLSTICK® D40-70/03

Thermoplastic Polyurethane Elastomer (Polyester)

Lubrizol Advanced Materials, Inc.

Message:

Pearlstick® D40-70/03 is an elastic, linear, aromatic polyurethane, supplied in form of white spherical granules with an extremely high crystallization rate and a very low thermoplasticity level.

Pearlstick® D40-70/03 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® D40-70/03 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.

| General Information | | | |
|--|---|-------------------|-----------------|
| Features | Aroma | | |
| | Heat resistance, high | | |
| Uses | Textile bonding | | |
| | Application in Automobile Field | | |
| | Adhesive | | |
| Appearance | White | | |
| Forms | Particles | | |
| Physical | Nominal Value | Unit | Test Method |
| Density (20°C) | 1.18 | g/cm ³ | ISO 2781 |
| Viscosity ¹ (20°C) | 100 - 500 | mPa · s | Internal method |
| Heat Resistance | Excellent | | Internal method |
| Hydroxyl Value | 0.10 | % | Internal method |
| Activation temperature | 60 | °C | EN 12961 |
| Additional Information | Nominal Value | Unit | Test Method |
| SOLUBILITY Pearlstick® D40-70/03 is soluble in Acetone, Methyl Ethyl Ketone (MEK), Cyclohexanone, Dimethyl formamide, (DMF), 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 isocyanate. Pearlstick® D40-70/03 gives transparent solutions. It they 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 15% MEK (MQSA N° 55 A) | | |

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