

Lubrizol Advanced Materials Pearlstick® 46-10/06 Polyester based TPU

Category : Polymer , Thermoplastic , Polyurethane, TP , Thermoplastic Polyurethane (TPUR), Polyester Grade

Material Notes:

Pearlstick® 46-10/06 is an elastic, linear, aromatic polyurethane, supplied in form of white spherical granules with a very high crystallization rate and a high thermoplasticity level. Solubility: Pearlstick® 46-10/06 is soluble in Methylene Chloride, Acetone, Methyl Ethyl Ketone (MEK), Ethyl Acetate, Cyclohexanone, Dimethyl formamide, (DMF), Tetrahydrofurane (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 isocyanate. Applications: Pearlstick® 46-10/06 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® 46-10/06 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 bonds still further. Information provided by Merquinsa

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lubrizol-Advanced-Materials-Pearlstick-46-1006-Polyester-based-TPU.php

| Physical Properties | Metric | English | Comments |
|----------------------|--------------|---------------------------|--|
| Density | 1.19 g/cc | 0.0430 lb/in ³ | ISO 2781 |
| Brookfield Viscosity | 450 - 750 cP | 450 - 750 cP | Brookfield RVF sp 2, 20 rpm, Solution 15% MEK (MQSA N° 55 A); MQSA 40A |

| Processing Properties | Metric | English | Comments |
|------------------------|---------|---------|--------------------------------|
| Processing Temperature | 50.0 °C | 122 °F | Min. Activation Temp; EN 12961 |

| Descriptive Properties | Value | Comments |
|--------------------------------------|-----------|----------|
| Crystallization Rate (MQSA n° 12 A) | VERY HIGH | |
| Hydroxyl Number | 0.1% | MQSA 47A |
| Solubility - Acetone / Ethyl Acetate | 0:100 | |
| Solubility - Acetone / Toluene | 10:90 | |
| Solubility - MEK / Toluene | 20:80 | |
| Solubility - MEK/ Ethyl Acetate | 0:100 | |
| Thermoplasticity Range (MQSA n° 58) | HIGH | |

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