

Chengdu Polyster H4040 Thermoplastic Polyether-ester Elastomer (TPEE)

Category : Polymer , Thermoplastic , Elastomer, TPE , Polyester, TP , Polyether Ester Elastomer

Material Notes:

Low modulus molding and injection grade. Contains improved color- stable antioxidants. Excellent flex resistance, especially at low temperatures. Moldable even in thin sections. Can be used in light-colored products. Applications requiring flex life coupled with good flexibility at low temperatures, such as hose, railway tie pads and snowboard boot heel, etc. For blending with PVC to improve the mechanical properties. Information provided by Chengdu Polyster Co., Ltd.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Chengdu-Polyster-H4040-Thermoplastic-Polyether-ester-Elastomer-TPEE.php

| Physical Properties | Metric | English | Comments |
|---------------------|--------------------|---------------------------|----------|
| Density | 1.12 g/cc | 0.0405 lb/in ³ | ISO 1183 |
| Melt Flow | 5.0 - 7.0 g/10 min | 5.0 - 7.0 g/10 min | ISO 1133 |

| Mechanical Properties | Metric | English | Comments |
|----------------------------|------------|----------|-----------|
| Hardness, Shore D | 40 | 40 | ISO 868 |
| Tensile Strength, Ultimate | 25.0 MPa | 3630 psi | ISO 527-1 |
| Elongation at Break | 540 % | 540 % | ISO 527-1 |
| Flexural Modulus | 0.0600 GPa | 8.70 ksi | ISO 178 |
| Tear Strength | 95.0 kN/m | 542 pli | ISO 34 |

| Thermal Properties | Metric | English | Comments |
|-------------------------|----------|----------|----------|
| Melting Point | 165 °C | 329 °F | ISO 3146 |
| Brittleness Temperature | -70.0 °C | -94.0 °F | ISO 974 |

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