

Toyobo PELPRENE™ S1002 Polyester TPE, Ultra Heat-resistant

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

Material Notes:

Features: Polyester TPE, Ultra Heat-resistant Information provided by Toyobo.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Toyobo-PELPRENE-S1002-Polyester-TPE-Ultra-Heat-resistant.php

| Physical Properties | Metric | English | Comments |
|------------------------------------|------------------------------------|-------------------------------------|--------------|
| Density | 1.21 g/cc | 0.0437 lb/in ³ | ASTM D792 |
| Moisture Absorption at Equilibrium | 0.40 % | 0.40 % | 23°C, 65% RH |
| Linear Mold Shrinkage | 0.012 cm/cm @Thickness 2.00 mm | 0.012 in/in @Thickness 0.0787 in | |
| Melt Index of Compound | 17 g/10 min @Temperature 230 °C | 17 g/10 min @Temperature 446 °F | ASTM D1238 |

| Mechanical Properties | Metric | English | Comments |
|--------------------------------|------------|----------|----------------|
| Hardness, Shore A | 96 | 96 | JIS K6301 |
| Hardness, Shore D | 48 | 48 | ASTM D2240 |
| Tensile Strength at Break | 30.0 MPa | 4350 psi | ASTM D638 |
| Elongation at Break | 720 % | 720 % | ASTM D638 |
| 50% Modulus | 0.0108 GPa | 1.57 ksi | ASTM D638 |
| Flexural Modulus | 0.108 GPa | 15.7 ksi | ASTM D790 |
| Compressive Modulus | 0.0102 GPa | 1.48 ksi | 0.1; ASTM D695 |
| Resilience | 63 | 63 | JIS K6301 |
| Izod Impact, Notched | NB | NB | ASTM D256 |
| Tear Strength | 118 kN/m | 673 pli | ASTM D624 |
| Taber Abrasion, mg/1000 Cycles | 15 | 15 | ASTM D1044 |
| Compression Set | 60 % | 60 % | JIS K6301 |

| Thermal Properties | Metric | English | Comments |
|--------------------|-------------|---------------|----------|
| CTE, linear | 190 µm/m-°C | 106 µin/in-°F | TMA |

| Thermal Properties | @Temperature 20.0 °C Metric | @Temperature 68.0 °F English | Comments |
|----------------------------------|--------------------------------|---------------------------------|--|
| Melting Point | 200 °C | 392 °F | By DSC |
| Maximum Service Temperature, Air | 68.0 °C | 154 °F | Heat deflection temperature, load unknown; ASTM D648 |
| Vicat Softening Point | 172 °C | 342 °F | ASTM D1525 |
| Brittleness Temperature | <= -65.0 °C | <= -85.0 °F | JIS K6301 |
| Flammability, UL94 | HB | HB | |

| Electrical Properties | Metric | English | Comments |
|-----------------------|-----------------|-----------------|-----------|
| Volume Resistivity | 2.00e+12 ohm-cm | 2.00e+12 ohm-cm | ASTM D257 |
| Dielectric Strength | 25.0 kV/mm | 635 kV/in | JIS K2111 |

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