

Toyobo PELPRENE™ S6002 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-S6002-Polyester-TPE-Ultra-Heat-resistant.php

Physical Properties	Metric	English	Comments
Density	1.28 g/cc	0.0462 lb/in ³	ASTM D792
Moisture Absorption at Equilibrium	0.30 %	0.30 %	23°C, 65% RH
Linear Mold Shrinkage	0.017 cm/cm @Thickness 2.00 mm	0.017 in/in @Thickness 0.0787 in	
Melt Index of Compound	8.0 g/10 min @Temperature 230 °C	8.0 g/10 min @Temperature 446 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	99	99	JIS K6301
Hardness, Shore D	72	72	ASTM D2240
Tensile Strength at Break	46.0 MPa	6670 psi	ASTM D638
Elongation at Break	450 %	450 %	ASTM D638
50% Modulus	0.0275 GPa	3.99 ksi	ASTM D638
Flexural Modulus	0.568 GPa	82.4 ksi	ASTM D790
Compressive Modulus	0.0308 GPa	4.47 ksi	0.1; ASTM D695
Resilience	56	56	JIS K6301
Izod Impact, Notched	1.96 J/cm	3.67 ft-lb/in	ASTM D256
Tear Strength	196 kN/m	1120 pli	ASTM D624
Taber Abrasion, mg/1000 Cycles	8.0	8.0	ASTM D1044

Thermal Properties	Metric	English	Comments
CTE, linear	140 µm/m-°C @Temperature 20.0 °C	77.8 µin/in-°F @Temperature 68.0 °F	TMA

Melting Point Thermal Properties	218 °C Metric	424 °F English	By DSC Comments
Maximum Service Temperature, Air	130 °C	266 °F	Heat deflection temperature, load unknown; ASTM D648
Vicat Softening Point	202 °C	396 °F	ASTM D1525
Brittleness Temperature	-60.0 °C	-76.0 °F	JIS K6301
Flammability, UL94	HB	HB	

Electrical Properties	Metric	English	Comments
Volume Resistivity	5.00e+14 ohm-cm	5.00e+14 ohm-cm	ASTM D257
Dielectric Strength	30.0 kV/mm	762 kV/in	JIS K2111

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