

Toyobo PELPRENE™ S2002 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-S2002-Polyester-TPE-Ultra-Heat-resistant.php

Physical Properties	Metric	English	Comments
Density	1.24 g/cc	0.0448 lb/in ³	ASTM D792
Moisture Absorption at Equilibrium	0.38 %	0.38 %	23°C, 65% RH
Linear Mold Shrinkage	0.013 cm/cm @Thickness 2.00 mm	0.013 in/in @Thickness 0.0787 in	
Melt Index of Compound	12 g/10 min @Temperature 230 °C	12 g/10 min @Temperature 446 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	97	97	JIS K6301
Hardness, Shore D	55	55	ASTM D2240
Tensile Strength at Break	38.0 MPa	5510 psi	ASTM D638
Elongation at Break	550 %	550 %	ASTM D638
50% Modulus	0.0167 GPa	2.42 ksi	ASTM D638
Flexural Modulus	0.206 GPa	29.9 ksi	ASTM D790
Compressive Modulus	0.0163 GPa	2.36 ksi	0.1; ASTM D695
Resilience	60	60	JIS K6301
Izod Impact, Notched	NB	NB	ASTM D256
Tear Strength	155 kN/m	884 pli	ASTM D624
Taber Abrasion, mg/1000 Cycles	12	12	ASTM D1044
Compression Set	61 %	61 %	JIS K6301

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

Thermal Properties	@Temperature 20.0 °C Metric	@Temperature 68.0 °F English	Comments
Melting Point	206 °C	403 °F	By DSC
Maximum Service Temperature, Air	107 °C	225 °F	Heat deflection temperature, load unknown; ASTM D648
Vicat Softening Point	185 °C	365 °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+13 ohm-cm	2.00e+13 ohm-cm	ASTM D257
Dielectric Strength	30.0 kV/mm	762 kV/in	JIS K2111

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