

Toyobo PELPRENE™ S3002 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-S3002-Polyester-TPE-Ultra-Heat-resistant.php

Physical Properties	Metric	English	Comments
Density	1.26 g/cc	0.0455 lb/in ³	ASTM D792
Moisture Absorption at Equilibrium	0.34 %	0.34 %	23°C, 65% RH
Linear Mold Shrinkage	0.015 cm/cm @Thickness 2.00 mm	0.015 in/in @Thickness 0.0787 in	
Melt Index of Compound	10 g/10 min @Temperature 230 °C	10 g/10 min @Temperature 446 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	98	98	JIS K6301
Hardness, Shore D	60	60	ASTM D2240
Tensile Strength at Break	41.0 MPa	5950 psi	ASTM D638
Elongation at Break	520 %	520 %	ASTM D638
50% Modulus	0.0196 GPa	2.84 ksi	ASTM D638
Flexural Modulus	0.284 GPa	41.2 ksi	ASTM D790
Compressive Modulus	0.0211 GPa	3.06 ksi	0.1; ASTM D695
Resilience	58	58	JIS K6301
Izod Impact, Notched	NB	NB	ASTM D256
Tear Strength	167 kN/m	953 pli	ASTM D624
Taber Abrasion, mg/1000 Cycles	10	10	ASTM D1044
Compression Set	62 %	62 %	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	216 °C	421 °F	By DSC
Maximum Service Temperature, Air	117 °C	243 °F	Heat deflection temperature, load unknown; ASTM D648
Vicat Softening Point	193 °C	379 °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+14 ohm-cm	2.00e+14 ohm-cm	ASTM D257
Dielectric Strength	30.0 kV/mm	762 kV/in	JIS K2111

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