

Toyobo PELPRENE™ PE450B Polyester TPE

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

Material Notes:

Features: Polyester TPE Information provided by Toyobo.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Toyobo-PELPRENE-PE450B-Polyester-TPE.php

Physical Properties	Metric	English	Comments
Density	1.28 g/cc	0.0462 lb/in ³	ASTM D792
Moisture Absorption at Equilibrium	0.25 %	0.25 %	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	10 g/10 min @Temperature 230 °C	10 g/10 min @Temperature 446 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	99	99	JIS K6301
Hardness, Shore D	78	78	ASTM D2240
Tensile Strength at Break	35.0 MPa	5080 psi	ASTM D638
Elongation at Break	440 %	440 %	ASTM D638
50% Modulus	0.0403 GPa	5.85 ksi	ASTM D638
Flexural Modulus	1.267 GPa	183.8 ksi	ASTM D790
Compressive Modulus	0.0392 GPa	5.69 ksi	0.1; ASTM D695
Izod Impact, Notched	0.390 J/cm	0.731 ft-lb/in	ASTM D256
Tear Strength	237 kN/m	1350 pli	ASTM D624
Taber Abrasion, mg/1000 Cycles	5.0	5.0	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	222 °C	432 °F	By DSC

Maximum Service Temperature, Air Thermal Properties	161 °C Metric	322 °F English	Heat deflection temperature, load unlimited, ASTM D648 Comments
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	7.00e+15 ohm-cm	7.00e+15 ohm-cm	ASTM D257
Dielectric Strength	30.0 kV/mm	762 kV/in	JIS K2111

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