

Toyobo PELPRENE™ S9001 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-S9001-Polyester-TPE.php

Physical Properties	Metric	English	Comments
Density	1.29 g/cc	0.0466 lb/in ³	ASTM D792
Moisture Absorption at Equilibrium	0.28 %	0.28 %	23°C, 65% RH
Linear Mold Shrinkage	0.018 cm/cm @Thickness 2.00 mm	0.018 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	49.0 MPa	7110 psi	ASTM D638
Elongation at Break	400 %	400 %	ASTM D638
50% Modulus	0.0441 GPa	6.40 ksi	ASTM D638
Flexural Modulus	0.882 GPa	128 ksi	ASTM D790
Compressive Modulus	0.0392 GPa	5.69 ksi	0.1; ASTM D695
Izod Impact, Notched	0.590 J/cm	1.11 ft-lb/in	ASTM D256
Tear Strength	250 kN/m	1430 pli	ASTM D624
Taber Abrasion, mg/1000 Cycles	6.0	6.0	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	223 °C	433 °F	By DSC

Maximum Service Temperature, Air Thermal Properties	146 °C Metric	295 °F English	Heat deflection temperature, load unlimited, ASTM D648 Comments
Vicat Softening Point	207 °C	405 °F	ASTM D1525
Brittleness Temperature	-50.0 °C	-58.0 °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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