

Toyobo PELPRENE™ P90B 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-P90B-Polyester-TPE.php

Physical Properties	Metric	English	Comments
Density	1.19 g/cc	0.0430 lb/in ³	ASTM D792
Moisture Absorption at Equilibrium	0.40 %	0.40 %	23°C, 65% RH
Linear Mold Shrinkage	0.011 cm/cm @Thickness 2.00 mm	0.011 in/in @Thickness 0.0787 in	
Melt Index of Compound	20 g/10 min @Temperature 230 °C	20 g/10 min @Temperature 446 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	96	96	JIS K6301
Hardness, Shore D	52	52	ASTM D2240
Tensile Strength at Break	31.0 MPa	4500 psi	ASTM D638
Elongation at Break	700 %	700 %	ASTM D638
50% Modulus	0.0147 GPa	2.13 ksi	ASTM D638
Flexural Modulus	0.162 GPa	23.5 ksi	ASTM D790
Compressive Modulus	0.0133 GPa	1.93 ksi	0.1; ASTM D695
Resilience	65	65	JIS K6301
Izod Impact, Notched	NB	NB	ASTM D256
Tear Strength	172 kN/m	981 pli	ASTM D624
Taber Abrasion, mg/1000 Cycles	13	13	ASTM D1044
Compression Set	57 %	57 %	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	203 °C	397 °F	By DSC
Maximum Service Temperature, Air	101 °C	214 °F	Heat deflection temperature, load unknown; ASTM D648
Vicat Softening Point	180 °C	356 °F	ASTM D1525
Brittleness Temperature	<= -65.0 °C	<= -85.0 °F	JIS K6301
Flammability, UL94	HB	HB	

Electrical Properties	Metric	English	Comments
Volume Resistivity	6.00e+13 ohm-cm	6.00e+13 ohm-cm	ASTM D257
Dielectric Strength	30.0 kV/mm	762 kV/in	JIS K2111

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