

Toyobo Pelprene™ P-150M Polyester TPE

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

Material Notes:

Key Feature: Pelprene P type Pelprene™ can be processed into a wide variety of articles from ultra-small precision parts to sheets by injection, extrusion, and blow molding. The 'P' type is a block copolymer consisting of an aromatic polyester as the hard segment and an aliphatic polyether as the soft one. It covers general purpose grades, being designed to have a balance of flexibility, heat & cold resistance, chemical resistance, and processability. Information provided by Toyobo Co., Ltd

Order this product through the following link:

http://www.lookpolymers.com/polymer_Toyobo-Pelprene-P-150M-Polyester-TPE.php

Physical Properties	Metric	English	Comments
Density	1.19 g/cc	0.0430 lb/in ³	ASTM D792
Moisture Absorption at Equilibrium	0.36 %	0.36 %	25°C; 65%RH
Linear Mold Shrinkage	0.0030 cm/cm @Thickness 2.00 mm	0.0030 in/in @Thickness 0.0787 in	
Melt Flow	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	ASTM D2240
Hardness, Shore D	50	50	ASTM D2240
Tensile Strength, Ultimate	14.0 MPa	2030 psi	ASTM D638
Elongation at Break	420 %	420 %	ASTM D638
50% Modulus	0.00980 GPa	1.42 ksi	ASMT D638
Flexural Modulus	0.118 GPa	17.1 ksi	ASTM D790
Compressive Modulus	0.00900 GPa	1.31 ksi	10% Compression Modulus; ASTM D695
Resilience	44	44	JIS K6301
Izod Impact, Notched	NB	NB	ASTM D256
Tear Strength	142 kN/m	810 pli	ASTM D624
Taber Abrasion, mg/1000 Cycles	15	15	CS-17 wheel; ASTM D1044
Compression Set	60 %	60 %	70°C; 22 hrs; JIS K6301

Mechanical Properties	@Temperature 70.0 °C Metric	@Temperature 158 °F English	Comments
Thermal Properties	Metric	English	Comments
CTE, linear	170 µm/m-°C @Temperature 20.0 °C	94.4 µin/in-°F @Temperature 68.0 °F	TMA
Melting Point	170 °C	338 °F	DSC
Deflection Temperature at 1.8 MPa (264 psi)	50.0 °C	122 °F	ASTM D648
Vicat Softening Point	140 °C	284 °F	ASTM D1525
Brittleness Temperature	-65.0 °C	-85.0 °F	JIS K6301
Flammability, UL94	HB	HB	
Electrical Properties	Metric	English	Comments
Electrical Resistivity	1.00e+14 ohm-cm	1.00e+14 ohm-cm	ASTM D257
Dielectric Strength	30.0 kV/mm	762 kV/in	JIS K2111

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