

Toyobo Pelprene™ P-30B 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-30B-Polyester-TPE.php

Physical Properties	Metric	English	Comments
Density	1.05 g/cc	0.0379 lb/in ³	ASTM D792
Moisture Absorption at Equilibrium	0.58 %	0.58 %	25°C; 65%RH
Linear Mold Shrinkage	0.0040 cm/cm @Thickness 2.00 mm	0.0040 in/in @Thickness 0.0787 in	
Melt Flow	14 g/10 min @Temperature 190 °C	14 g/10 min @Temperature 374 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	70	70	ASTM D2240
Hardness, Shore D	29	29	ASTM D2240
Tensile Strength, Ultimate	7.00 MPa	1020 psi	ASTM D638
Elongation at Break	840 %	840 %	ASTM D638
50% Modulus	0.00250 GPa	0.363 ksi	ASMT D638
Flexural Modulus	0.0150 GPa	2.18 ksi	ASTM D790
Compressive Modulus	0.00196 GPa	0.284 ksi	10% Compression Modulus; ASTM D695
Resilience	78	78	JIS K6301
Izod Impact, Notched	NB	NB	ASTM D256
Tear Strength	72.0 kN/m	411 pli	ASTM D624
Taber Abrasion, mg/1000 Cycles	20	20	CS-17 wheel; ASTM D1044
Compression Set	50 %	50 %	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	200 µm/m-°C @Temperature 20.0 °C	111 µin/in-°F @Temperature 68.0 °F	TMA
Melting Point	160 °C	320 °F	DSC
Vicat Softening Point	73.0 °C	163 °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+12 ohm-cm	1.00e+12 ohm-cm	ASTM D257
Dielectric Strength	20.0 kV/mm	508 kV/in	JIS K2111

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