

Toyobo PELPRENE™ P40BU Polyester TPE, Weather-resistant

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

Material Notes:

Features: Polyester TPE, Weather-resistant Information provided by Toyobo.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Toyobo-PELPRENE-P40BU-Polyester-TPE-Weather-resistant.php

Physical Properties	Metric	English	Comments
Density	1.07 g/cc	0.0387 lb/in ³	ASTM D792
Moisture Absorption at Equilibrium	0.56 %	0.56 %	23°C, 65% RH
Linear Mold Shrinkage	0.0040 cm/cm @Thickness 2.00 mm	0.0040 in/in @Thickness 0.0787 in	
Melt Index of Compound	10 g/10 min @Temperature 190 °C	10 g/10 min @Temperature 374 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	82	82	JIS K6301
Hardness, Shore D	31	31	ASTM D2240
Tensile Strength at Break	16.0 MPa	2320 psi	ASTM D638
Elongation at Break	820 %	820 %	ASTM D638
50% Modulus	0.00340 GPa	0.493 ksi	ASTM D638
Flexural Modulus	0.0230 GPa	3.34 ksi	ASTM D790
Compressive Modulus	0.00240 GPa	0.348 ksi	0.1; ASTM D695
Resilience	81	81	JIS K6301
Izod Impact, Notched	NB	NB	ASTM D256
Tear Strength	76.0 kN/m	434 pli	ASTM D624
Taber Abrasion, mg/1000 Cycles	20	20	ASTM D1044
Compression Set	49 %	49 %	JIS K6301

Thermal Properties	Metric	English	Comments
CTE, linear	200 µm/m-°C	111 µin/in-°F	TMA

Thermal Properties	@Temperature 20.0 °C Metric	@Temperature 68.0 °F English	Comments
Melting Point	180 °C	356 °F	By DSC
Maximum Service Temperature, Air	<= 25.0 °C	<= 77.0 °F	Heat deflection temperature, load unknown; ASTM D648
Vicat Softening Point	89.0 °C	192 °F	ASTM D1525
Brittleness Temperature	<= -65.0 °C	<= -85.0 °F	JIS K6301
Flammability, UL94	HB	HB	

Electrical Properties	Metric	English	Comments
Volume 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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