

Toyobo PELPRENE™ P55U 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-P55U-Polyester-TPE-Weather-resistant.php

Physical Properties	Metric	English	Comments
Density	1.15 g/cc	0.0415 lb/in³	ASTM D792
Moisture Absorption at Equilibrium	0.45 %	0.45 %	23°C, 65% RH
Linear Mold Shrinkage	0.0070 cm/cm @Thickness 2.00 mm	0.0070 in/in @Thickness 0.0787 in	
Melt Index of Compound	22 g/10 min @Temperature 230 °C	22 g/10 min @Temperature 446 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	94	94	JIS K6301
Hardness, Shore D	44	44	ASTM D2240
Tensile Strength at Break	30.0 MPa	4350 psi	ASTM D638
Elongation at Break	700 %	700 %	ASTM D638
50% Modulus	0.00980 GPa	1.42 ksi	ASTM D638
Flexural Modulus	0.0760 GPa	11.0 ksi	ASTM D790
Compressive Modulus	0.00760 GPa	1.10 ksi	0.1; ASTM D695
Resilience	74	74	JIS K6301
Izod Impact, Notched	NB	NB	ASTM D256
Tear Strength	113 kN/m	645 pli	ASTM D624
Taber Abrasion, mg/1000 Cycles	15	15	ASTM D1044
Compression Set	53 %	53 %	JIS K6301

Thermal Properties	Metric	English	Comments
CTE, linear	170 µm/m-°C	94.4 µin/in-°F	TMA

Thermal Properties	@Temperature 20.0 °C Metric	@Temperature 68.0 °F English	Comments
Melting Point	182 °C	360 °F	By DSC
Maximum Service Temperature, Air	<= 25.0 °C	<= 77.0 °F	Heat deflection temperature, load unknown; ASTM D648
Vicat Softening Point	155 °C	311 °F	ASTM D1525
Brittleness Temperature	<= -65.0 °C	<= -85.0 °F	JIS K6301
Flammability, UL94	HB	HB	

Electrical Properties	Metric	English	Comments
Volume Resistivity	9.00e+12 ohm-cm	9.00e+12 ohm-cm	ASTM D257
Dielectric Strength	22.0 kV/mm	559 kV/in	JIS K2111

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