

Toyobo PELPRENE™ P50DFR Polyester TPE, Flame Resistant

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

Material Notes:

Features: Polyester TPE, Flame Resistant Information provided by Toyobo.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Toyobo-PELPRENE-P50DFR-Polyester-TPE-Flame-Resistant.php

Physical Properties	Metric	English	Comments
Density	1.36 g/cc	0.0491 lb/in ³	ASTM D792
Moisture Absorption at Equilibrium	0.40 %	0.40 %	23°C, 65% RH
Linear Mold Shrinkage	0.0080 cm/cm @Thickness 2.00 mm	0.0080 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	96	96	JIS K6301
Hardness, Shore D	54	54	ASTM D2240
Tensile Strength at Break	17.6 MPa	2550 psi	ASTM D638
Elongation at Break	600 %	600 %	ASTM D638
50% Modulus	0.0108 GPa	1.57 ksi	ASTM D638
Flexural Modulus	0.167 GPa	24.2 ksi	ASTM D790
Compressive Modulus	0.00940 GPa	1.36 ksi	0.1; ASTM D695
Resilience	65	65	JIS K6301
Izod Impact, Notched	NB	NB	ASTM D256
Tear Strength	108 kN/m	616 pli	ASTM D624
Taber Abrasion, mg/1000 Cycles	17	17	ASTM D1044
Compression Set	55 %	55 %	JIS K6301

Thermal Properties	Metric	English	Comments
CTE, linear	160 µm/m-°C	88.9 µin/in-°F	TMA

Thermal Properties	@Temperature 20.0 °C Metric	@Temperature 68.0 °F English	Comments
Melting Point	215 °C	419 °F	By DSC
Maximum Service Temperature, Air	70.0 °C	158 °F	Heat deflection temperature, load unknown; ASTM D648
Vicat Softening Point	170 °C	338 °F	ASTM D1525
Brittleness Temperature	<= -65.0 °C	<= -85.0 °F	JIS K6301
Flammability, UL94	V-0	V-0	

Electrical Properties	Metric	English	Comments
Volume Resistivity	6.00e+13 ohm-cm	6.00e+13 ohm-cm	ASTM D257
Dielectric Strength	15.0 kV/mm	381 kV/in	JIS K2111

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