

Toyobo PELPRENE™ P80C Polyester TPE, High Flexibility, High Melting Point

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

Material Notes:

Features: Polyester TPE, High Flexibility, High Melting Point Information provided by Toyobo.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Toyobo-PELPRENE-P80C-Polyester-TPE-High-Flexibility-High-Melting-Point.php

Physical Properties	Metric	English	Comments
Density	1.12 g/cc	0.0405 lb/in ³	ASTM D792
Moisture Absorption at Equilibrium	0.48 %	0.48 %	23°C, 65% RH
Linear Mold Shrinkage	0.0060 cm/cm @Thickness 2.00 mm	0.0060 in/in @Thickness 0.0787 in	
Melt Index of Compound	18 g/10 min @Temperature 230 °C	18 g/10 min @Temperature 446 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	93	93	JIS K6301
Hardness, Shore D	38	38	ASTM D2240
Tensile Strength at Break	26.0 MPa	3770 psi	ASTM D638
Elongation at Break	600 %	600 %	ASTM D638
50% Modulus	0.00640 GPa	0.928 ksi	ASTM D638
Flexural Modulus	0.0490 GPa	7.11 ksi	ASTM D790
Compressive Modulus	0.00420 GPa	0.609 ksi	0.1; ASTM D695
Resilience	78	78	JIS K6301
Izod Impact, Notched	NB	NB	ASTM D256
Tear Strength	98.0 kN/m	559 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	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	203 °C	397 °F	By DSC
Maximum Service Temperature, Air	<= 25.0 °C	<= 77.0 °F	Heat deflection temperature, load unknown; ASTM D648
Vicat Softening Point	154 °C	309 °F	ASTM D1525
Brittleness Temperature	<= -65.0 °C	<= -85.0 °F	JIS K6301
Flammability, UL94	HB	HB	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.20e+13 ohm-cm	1.20e+13 ohm-cm	ASTM D257
Dielectric Strength	20.0 kV/mm	508 kV/in	JIS K2111

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