

Toyobo PELPRENE™ S3001 Polyester TPE

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

Material Notes:

Features: Polyester TPE Information provided by Toyobo.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Toyobo-PELPRENE-S3001-Polyester-TPE.php

Physical Properties	Metric	English	Comments
Density	1.26 g/cc	0.0455 lb/in³	ASTM D792
Moisture Absorption at Equilibrium	0.34 %	0.34 %	23°C, 65% RH
Linear Mold Shrinkage	0.015 cm/cm @Thickness 2.00 mm	0.015 in/in @Thickness 0.0787 in	
Melt Index of Compound	16 g/10 min @Temperature 230 °C	16 g/10 min @Temperature 446 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	98	98	JIS K6301
Hardness, Shore D	60	60	ASTM D2240
Tensile Strength at Break	40.0 MPa	5800 psi	ASTM D638
Elongation at Break	540 %	540 %	ASTM D638
50% Modulus	0.0196 GPa	2.84 ksi	ASTM D638
Flexural Modulus	0.274 GPa	39.7 ksi	ASTM D790
Compressive Modulus	0.0211 GPa	3.06 ksi	0.1; ASTM D695
Resilience	58	58	JIS K6301
Izod Impact, Notched	NB	NB	ASTM D256
Tear Strength	167 kN/m	953 pli	ASTM D624
Taber Abrasion, mg/1000 Cycles	10	10	ASTM D1044
Compression Set	62 %	62 %	JIS K6301

Thermal Properties	Metric	English	Comments
CTE, linear	140 µm/m-°C	77.8 µin/in-°F	TMA

Thermal Properties	@Temperature 20.0 °C Metric	@Temperature 68.0 °F English	Comments
Melting Point	216 °C	421 °F	By DSC
Maximum Service Temperature, Air	117 °C	243 °F	Heat deflection temperature, load unknown; ASTM D648
Vicat Softening Point	193 °C	379 °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+14 ohm-cm	1.00e+14 ohm-cm	ASTM D257
Dielectric Strength	30.0 kV/mm	762 kV/in	JIS K2111

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China