

Toyobo PELPRENE™ P46D-01 Polyester TPE, High Viscous, High Durability

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

Material Notes:

Features: Polyester TPE, High Viscous, High Durability Information provided by Toyobo.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Toyobo-PELPRENE-P46D-01-Polyester-TPE-High-Viscous-High-Durability.php

Physical Properties	Metric	English	Comments
Density	1.15 g/cc	0.0415 lb/in ³	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	0.50 g/10 min @Temperature 230 °C	0.50 g/10 min @Temperature 446 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	97	97	JIS K6301
Hardness, Shore D	46	46	ASTM D2240
Tensile Strength at Break	31.9 MPa	4630 psi	ASTM D638
Elongation at Break	700 %	700 %	ASTM D638
50% Modulus	0.0109 GPa	1.58 ksi	ASTM D638
Flexural Modulus	0.110 GPa	16.0 ksi	ASTM D790
Compressive Modulus	0.00960 GPa	1.39 ksi	0.1; ASTM D695
Resilience	70	70	JIS K6301
Izod Impact, Notched	NB	NB	ASTM D256
Tear Strength	165 kN/m	941 pli	ASTM D624
Taber Abrasion, mg/1000 Cycles	10	10	ASTM D1044
Compression Set	55 %	55 %	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	74.0 °C	165 °F	Heat deflection temperature, load unknown; ASTM D648
Vicat Softening Point	153 °C	307 °F	ASTM D1525
Brittleness Temperature	<= -65.0 °C	<= -85.0 °F	JIS K6301
Flammability, UL94	HB	HB	

Electrical Properties	Metric	English	Comments
Volume Resistivity	4.00e+13 ohm-cm	4.00e+13 ohm-cm	ASTM D257
Dielectric Strength	25.0 kV/mm	635 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