

## Toyobo Pelprene™ P-70B Polyester TPE

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

### Material Notes:

**Key Feature:** Pelprene P type Pelprene™ can be processed into a wide variety of articles from ultra-small precision parts to sheets by injection, extrusion, and blow molding. The 'P' type is a block copolymer consisting of an aromatic polyester as the hard segment and an aliphatic polyether as the soft one. It covers general purpose grades, being designed to have a balance of flexibility, heat & cold resistance, chemical resistance, and processability. Information provided by Toyobo Co., Ltd

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Toyobo-Pelprene-P-70B-Polyester-TPE.php](http://www.lookpolymers.com/polymer_Toyobo-Pelprene-P-70B-Polyester-TPE.php)

Physical Properties	Metric	English	Comments
Density	1.17 g/cc	0.0423 lb/in <sup>3</sup>	ASTM D792
Moisture Absorption at Equilibrium	0.43 %	0.43 %	25°C; 65%RH
Linear Mold Shrinkage	0.010 cm/cm @Thickness 2.00 mm	0.010 in/in @Thickness 0.0787 in	
Melt Flow	20 g/10 min @Temperature 230 °C	20 g/10 min @Temperature 446 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	96	96	ASTM D2240
Hardness, Shore D	46	46	ASTM D2240
Tensile Strength, Ultimate	12.0 MPa	1740 psi	ASTM D638
Elongation at Break	550 %	550 %	ASTM D638
50% Modulus	0.0108 GPa	1.57 ksi	ASMT D638
Flexural Modulus	0.108 GPa	15.7 ksi	ASTM D790
Compressive Modulus	0.00920 GPa	1.33 ksi	10% Compression Modulus; ASTM D695
Resilience	71	71	JIS K6301
Izod Impact, Notched	NB	NB	ASTM D256
Tear Strength	122 kN/m	696 pli	ASTM D624
Taber Abrasion, mg/1000 Cycles	15	15	CS-17 wheel; ASTM D1044
Compression Set	55 %	55 %	70°C; 22 hrs; JIS K6301

Mechanical Properties	@Temperature 70.0 °C Metric	@Temperature 158 °F English	Comments
<b>Thermal Properties</b>	<b>Metric</b>	<b>English</b>	<b>Comments</b>
CTE, linear	160 µm/m-°C @Temperature 20.0 °C	88.9 µin/in-°F @Temperature 68.0 °F	TMA
Melting Point	200 °C	392 °F	DSC
Deflection Temperature at 1.8 MPa (264 psi)	74.0 °C	165 °F	ASTM D648
Vicat Softening Point	170 °C	338 °F	ASTM D1525
Brittleness Temperature	-65.0 °C	-85.0 °F	JIS K6301
Flammability, UL94	HB	HB	
<b>Electrical Properties</b>	<b>Metric</b>	<b>English</b>	<b>Comments</b>
Electrical Resistivity	6.00e+13 ohm-cm	6.00e+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](http://www.lookpolymers.com)

Email : [sales@lookpolymers.com](mailto:sales@lookpolymers.com)

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

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