

Techmer ES Elastoblend® PA12 CL

Category : Polymer , Thermoplastic , Nylon , Nylon 12

Material Notes:

Availability: North America Forms: Pellets Appearance: Clear/Transparent Information provided by TP Composites, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Techmer-ES-Elastoblend-PA12-CL.php

Physical Properties	Metric	English	Comments
Density	1.06 g/cc	0.0383 lb/in ³	ASTM D792
Water Absorption	0.30 % @Time 86400 sec	0.30 % @Time 24.0 hour	ASTM D570
Linear Mold Shrinkage, Flow	0.011 cm/cm @Thickness 3.17 mm	0.011 in/in @Thickness 0.125 in	ASTM D955
Melt Flow	12 g/10 min @Load 3.80 kg, Temperature 230 °C	12 g/10 min @Load 8.38 lb, Temperature 446 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	85	85	ASTM D785
Tensile Strength, Yield	81.4 MPa	11800 psi	ASTM D638
Elongation at Yield	10 %	10 %	ASTM D638
Flexural Strength	98.6 MPa	14300 psi	ASTM D790
Flexural Modulus	2.03 GPa	295 ksi	ASTM D790
Poissons Ratio	0.40	0.40	ASTM E132
Izod Impact, Notched	0.534 J/cm @Thickness 3.17 mm	1.00 ft-lb/in @Thickness 0.125 in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	72.0 Åµm/m-Å°C	40.0 Åµin/in-Å°F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	154 Å°C	310 Å°F	Unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	149 Å°C	300 Å°F	Unannealed; ASTM D648
Vicat Softening Point	108 Å°C	226 Å°F	Rate B (120Å°C/h); ASTM D1525

Thermal Properties	Metric	English	Comments
Optical Properties	Metric	English	Comments
Haze	0.70 %	0.70 %	ASTM D1003
Transmission, Visible	90 %	90 %	transparent; thickness not quantified
IR Transmittance	89 - 90 %	89 - 90 %	ASTM D1003

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