

Techmer ES Plastiblend® PC/PBT IM 1012

Category : Polymer , Thermoplastic , Polycarbonate (PC) , Polycarbonate/Polybutylene Terephthalate (PBT) Blend, Unreinforced , Polyester, TP , Polybutylene Terephthalate (PBT)

Material Notes:

Availability: North America Forms: Pellets Additive: Impact Modifier Features: Impact Modified Appearance: Black Information provided by TP Composites, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Techmer-ES-Plastiblend-PCPBT-IM-1012.php

Physical Properties	Metric	English	Comments
Density	1.22 g/cc	0.0441 lb/in ³	ASTM D792
Water Absorption	0.17 %	0.17 %	ASTM D570
	@Time 86400 sec	@Time 24.0 hour	
Melt Flow	12 g/10 min	12 g/10 min	ASTM D1238
	@Load 5.00 kg, Temperature 265 Å°C	@Load 11.0 lb, Temperature 509 Å°F	
	28 g/10 min	28 g/10 min	ASTM D1238
	@Load 2.16 kg, Temperature 285 Å°C	@Load 4.76 lb, Temperature 545 Å°F	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	117	117	ASTM D785
Tensile Strength, Yield	55.2 MPa	8000 psi	ASTM D638
Elongation at Break	110 %	110 %	ASTM D638
Flexural Yield Strength	91.0 MPa	13200 psi	ASTM D790
Flexural Modulus	2.34 GPa	340 ksi	ASTM D790
Izod Impact, Notched	4.27 J/cm	8.00 ft-lb/in	ASTM D256
	@Thickness 3.17 mm, Temperature -40.0 Å°C	@Thickness 0.125 in, Temperature -40.0 Å°F	
	8.01 J/cm	15.0 ft-lb/in	ASTM D256
	@Thickness 3.17 mm, Temperature 22.8 Å°C	@Thickness 0.125 in, Temperature 73.0 Å°F	
Dart Drop, Total Energy	4.87 J	3.59 ft-lb	ASTM D3763
	@Temperature -40.0 Å°C	@Temperature -40.0 Å°F	

Mechanical Properties	Metric	English	Comments
	@Temperature 22.8 Å°C	@Temperature 73.0 Å°F	ASTM D3763

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	63.0 Åµm/m-Å°C	35.0 Åµin/in-Å°F	ASTM D696
Deflection Temperature at 1.8 MPa (264 psi)	116 Å°C	240 Å°F	Unannealed; ASTM D648
Flammability, UL94	HB	HB	

Electrical Properties	Metric	English	Comments
Volume Resistivity	7.00e+15 ohm-cm	7.00e+15 ohm-cm	ASTM D257
Dielectric Strength	27.6 kV/mm	700 kV/in	Method A (Short-Time); ASTM D149

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