

Techmer ES Plastiblend® PC/PBT IM 1702 BK

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-1702-BK.php

Physical Properties	Metric	English	Comments
Density	1.22 g/cc	0.0441 lb/in ³	ASTM D792
Water Absorption	0.10 % @Time 86400 sec	0.10 % @Time 24.0 hour	ASTM D570
Linear Mold Shrinkage, Flow	0.0040 cm/cm @Thickness 3.17 mm	0.0040 in/in @Thickness 0.125 in	ASTM D955
Melt Flow	25 g/10 min @Load 5.00 kg, Temperature 265 Â°C	25 g/10 min @Load 11.0 lb, Temperature 509 Â°F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	62.7 MPa	9100 psi	ASTM D638
Elongation at Break	110 %	110 %	ASTM D638
Flexural Yield Strength	96.5 MPa	14000 psi	ASTM D790
Flexural Modulus	2.52 GPa	365 ksi	ASTM D790
Izod Impact, Notched	1.44 J/cm @Thickness 3.17 mm, Temperature -40.0 Â°C	2.70 ft-lb/in @Thickness 0.125 in, Temperature -40.0 Â°F	ASTM D256
	6.41 J/cm @Thickness 3.17 mm, Temperature 22.8 Â°C	12.0 ft-lb/in @Thickness 0.125 in, Temperature 73.0 Â°F	ASTM D256
Dart Drop, Total Energy	5.99 J @Temperature -28.9 Â°C	4.42 ft-lb @Temperature -20.0 Â°F	ASTM D3763
	6.14 J @Temperature 22.8	4.53 ft-lb @Temperature 73.0 Â°F	ASTM D3763

Mechanical Properties	^{Â°C} Metric	English	Comments
Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	81.0 Âµm/m-Â°C	45.0 Âµin/in-Â°F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	118 Â°C	245 Â°F	Unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	110 Â°C	230 Â°F	Unannealed; ASTM D648
Flammability, UL94	HB	HB	

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