Techmer ES PlastiblendÂ® PC/PBT IM 5727 BK

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

Material Notes:

Availability: North AmericaForms: PelletsAdditive: Impact Modifier and UV StabilizerFeatures: Impact ModifiedAppearance: BlackInformation provided by TP Composites, Inc.

Order this product through the following link:
http://www.lookpolymers.com/polymer_Techmer-ES-Plastiblend-PCPBT-IM-5727-BK.php

Physical Properties	Metric	English	Comments
Density	1.16 g/cc	0.0419 lb/inÂ³	ASTM D792
Water Absorption	0.10 % @Time 86400 sec	0.10 % @Time 24.0 hour	ASTM D570
Linear Mold Shrinkage, Flow	0.0070 cm/cm @Thickness 3.17 mm	0.0070 in/in @Thickness 0.125 in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	113	113	ASTM D785
Tensile Strength, Yield	46.9 MPa	6800 psi	ASTM D638
Elongation at Break	160 %	160 %	ASTM D638
Flexural Yield Strength	75.8 MPa	11000 psi	ASTM D790
Flexural Modulus	19.3 GPa	2800 ksi	ASTM D790
Izod Impact, Notched	6.41 J/cm @Thickness 3.17 mm, Temperature -30.0 Â°C	12.0 ft-lb/in @Thickness 0.125 in, Temperature -22.0 Â°F	ASTM D256
	8.54 J/cm @Thickness 3.17 mm, Temperature 22.8 Â°C	16.0 ft-lb/in @Thickness 0.125 in, Temperature 73.0 Â°F	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	23.4 Âµm/m-Â°C	13.0 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)	98.9 Â°C	210 Â°F	Unannealed; ASTM D648

Thermal Properties	Metric	English	Comments
Flammability, UL94	HB	HB	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+16 ohm-cm	1.00e+16 ohm-cm	ASTM D257

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