

Techmer ES Plastiblend® PC/ABS 2110 BK

Category : Polymer , Thermoplastic , ABS Polymer , Polycarbonate/ABS Alloy, Unreinforced , Polycarbonate (PC)

Material Notes:

Availability: North America Forms: Pellets Appearance: Black Information provided by TP Composites, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Techmer-ES-Plastiblend-PCABS-2110-BK.php

Physical Properties	Metric	English	Comments
Density	1.14 g/cc	0.0412 lb/in ³	ASTM D792
Water Absorption	0.10 % @Time 86400 sec	0.10 % @Time 24.0 hour	ASTM D570
Linear Mold Shrinkage, Flow	0.0060 cm/cm @Thickness 3.17 mm	0.0060 in/in @Thickness 0.125 in	ASTM D955
Melt Flow	5.5 g/10 min @Load 3.80 kg, Temperature 230 °C	5.5 g/10 min @Load 8.38 lb, Temperature 446 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	115	115	ASTM D785
Tensile Strength, Yield	53.1 MPa	7700 psi	ASTM D638
Elongation at Break	130 %	130 %	ASTM D638
Flexural Yield Strength	82.7 MPa	12000 psi	ASTM D790
Flexural Modulus	2.34 GPa	340 ksi	ASTM D790
Izod Impact, Notched	3.74 J/cm @Thickness 3.17 mm, Temperature -40.0 °C	7.00 ft-lb/in @Thickness 0.125 in, Temperature -40.0 °F	ASTM D256
	4.81 J/cm @Thickness 3.17 mm, Temperature -30.0 °C	9.00 ft-lb/in @Thickness 0.125 in, Temperature -22.0 °F	ASTM D256
	5.87 J/cm @Thickness 3.17 mm, Temperature 22.8 °C	11.0 ft-lb/in @Thickness 0.125 in, Temperature 73.0 °F	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow			ASTM D696

Thermal Properties	73.8 Åum/m-Å°C Metric	41.0 Åuin/in-Å°F English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	104 Å°C	219 Å°F	Unannealed; ASTM D648
Flammability, UL94	HB	HB	

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