

Techmer ES Plastiblend® ABS HH BK MB

Category : Polymer , Thermoplastic , ABS Polymer

Material Notes:

Availability: North America Forms: Pellets Features: High Gloss and High Heat Resistance Appearance: Black Processing Method: Injection Molding Information provided by TP Composites, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Techmer-ES-Plastiblend-ABS-HH-BK-MB.php

Physical Properties	Metric	English	Comments
Density	1.03 g/cc	0.0372 lb/in ³	ASTM D792
Melt Flow	6.0 g/10 min @Load 10.0 kg, Temperature 220 °C	6.0 g/10 min @Load 22.0 lb, Temperature 428 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	100	100	ASTM D785
Tensile Strength	37.2 MPa	5400 psi	ASTM D638
Elongation at Yield	3.1 %	3.1 %	ASTM D638
Flexural Yield Strength	71.0 MPa	10300 psi	ASTM D790
Flexural Modulus	2.34 GPa	340 ksi	ASTM D790
Izod Impact, Notched	1.12 J/cm @Thickness 3.17 mm, Temperature -40.0 °C	2.10 ft-lb/in @Thickness 0.125 in, Temperature -40.0 °F	ASTM D256
	1.49 J/cm @Thickness 3.17 mm, Temperature 0.000 °C	2.80 ft-lb/in @Thickness 0.125 in, Temperature 32.0 °F	ASTM D256
	3.04 J/cm @Thickness 3.17 mm, Temperature 22.8 °C	5.70 ft-lb/in @Thickness 0.125 in, Temperature 73.0 °F	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	93.9 °C	201 °F	Unannealed; ASTM D648
	106 °C	223 °F	Annealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	81.1 °C	178 °F	Unannealed; ASTM D648

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