

Techmer ES Plastiblend® ABS FR IM

Category : Polymer , Thermoplastic , ABS Polymer , Acrylonitrile Butadiene Styrene (ABS), Impact Grade, Molded , Acrylonitrile Butadiene Styrene (ABS), Unreinforced, Flame Retardant

Material Notes:

Availability: North America Forms: Pellets Features: Flame Retardant and High Impact Resistance 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-FR-IM.php

Physical Properties	Metric	English	Comments
Density	1.10 g/cc	0.0397 lb/in ³	ASTM D792
Melt Flow	12 g/10 min @Load 10.0 kg, Temperature 220 °C	12 g/10 min @Load 22.0 lb, Temperature 428 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	95	95	ASTM D785
Tensile Strength	33.8 MPa	4900 psi	ASTM D638
Elongation at Yield	3.5 %	3.5 %	ASTM D638
Flexural Yield Strength	67.6 MPa	9800 psi	ASTM D790
Flexural Modulus	2.07 GPa	300 ksi	ASTM D790
Izod Impact, Notched	1.23 J/cm @Thickness 3.17 mm, Temperature -40.0 °C	2.30 ft-lb/in @Thickness 0.125 in, Temperature -40.0 °F	ASTM D256
	1.82 J/cm @Thickness 3.17 mm, Temperature 0.000 °C	3.40 ft-lb/in @Thickness 0.125 in, Temperature 32.0 °F	ASTM D256
	4.48 J/cm @Thickness 3.17 mm, Temperature 22.8 °C	8.40 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
Deflection Temperature at 1.8 MPa (264 psi)	86.1 °C	187 °F	Unannealed; ASTM D648

Thermal Properties	V-0 Metric	V-0 English	Comments
	@Thickness 1.50 mm	@Thickness 0.0591 in	

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