

Techmer ES Plastiblend® ABS 8003 A1

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

Material Notes:

Availability: North America Forms: Pellets Additive: Heat Stabilizer and Impact Modifier Features: Heat Stabilized and Impact Modified 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-8003-A1.php

Physical Properties	Metric	English	Comments
Density	1.03 g/cc	0.0372 lb/in ³	ASTM D792
Linear Mold Shrinkage, Flow	0.0050 cm/cm @Thickness 3.17 mm	0.0050 in/in @Thickness 0.125 in	ASTM D955
Melt Flow	1.0 g/10 min @Load 5.00 kg, Temperature 220 Â°C	1.0 g/10 min @Load 11.0 lb, Temperature 428 Â°F	ASTM D1238
	7.0 g/10 min @Load 10.0 kg, Temperature 220 Â°C	7.0 g/10 min @Load 22.0 lb, Temperature 428 Â°F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	103	103	ASTM D785
Tensile Strength, Yield	41.4 MPa	6000 psi	ASTM D638
Elongation at Break	3.0 %	3.0 %	ASTM D638
Flexural Strength	579 MPa	84000 psi	ASTM D790
Flexural Modulus	2.03 GPa	295 ksi	ASTM D790
Izod Impact, Notched	1.07 J/cm @Thickness 3.17 mm, Temperature -40.0 Â°C	2.00 ft-lb/in @Thickness 0.125 in, Temperature -40.0 Â°F	ASTM D256
	2.35 J/cm @Thickness 3.17 mm, Temperature 0.000 Â°C	4.40 ft-lb/in @Thickness 0.125 in, Temperature 32.0 Â°F	ASTM D256
	3.04 J/cm @Thickness 3.17 mm, Temperature 22.8 Â°C	5.70 ft-lb/in @Thickness 0.125 in, Temperature 73.0 Â°F	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	92.2 Â°C	198 Â°F	Unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	85.0 Â°C	185 Â°F	Unannealed; ASTM D648

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