

Techmer ES Plastiblend® ABS 8003

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.php

Physical Properties	Metric	English	Comments
Density	1.03 g/cc	0.0372 lb/in ³	ASTM D792
Melt Flow	1.5 g/10 min	1.5 g/10 min	ASTM D1238
	@Load 3.80 kg, Temperature 230 °C	@Load 8.38 lb, Temperature 446 °F	
	4.0 g/10 min	4.0 g/10 min	ASTM D1238
	@Load 10.0 kg, Temperature 220 °C	@Load 22.0 lb, Temperature 428 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	95	95	ASTM D785
Tensile Strength	33.8 MPa	4900 psi	ASTM D638
Elongation at Yield	3.4 %	3.4 %	ASTM D638
Flexural Yield Strength	57.2 MPa	8300 psi	ASTM D790
Flexural Modulus	2.00 GPa	290 ksi	ASTM D790
Izod Impact, Notched	1.23 J/cm	2.30 ft-lb/in	ASTM D256
	@Thickness 3.17 mm, Temperature -40.0 °C	@Thickness 0.125 in, Temperature -40.0 °F	
	2.40 J/cm	4.50 ft-lb/in	ASTM D256
	@Thickness 3.17 mm, Temperature 0.000 °C	@Thickness 0.125 in, Temperature 32.0 °F	
	3.74 J/cm	7.00 ft-lb/in	ASTM D256
	@Thickness 3.17 mm, Temperature 22.8 °C	@Thickness 0.125 in, Temperature 73.0 °F	

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	95.0 °C	203 °F	Unannealed; ASTM D648

Thermal Properties
(204 psi)

ure at 1.8 MPa

Metric

English

Comments: ASTM D648

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