

Techmer ES Plastiblend® ABS/PA 1700 B1

Category : Polymer , Thermoplastic , ABS Polymer , Acrylonitrile Butadiene Styrene (ABS)/Nylon Blend , Nylon

Material Notes:

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

Order this product through the following link:

http://www.lookpolymers.com/polymer_Techmer-ES-Plastiblend-ABSPA-1700-B1.php

Physical Properties	Metric	English	Comments
Density	1.05 g/cc	0.0379 lb/in ³	ASTM D792
Linear Mold Shrinkage, Flow	0.0060 cm/cm @Thickness 3.17 mm	0.0060 in/in @Thickness 0.125 in	ASTM D955
Melt Flow	3.3 g/10 min @Load 10.0 kg, Temperature 260 °C	3.3 g/10 min @Load 22.0 lb, Temperature 500 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	110	110	ASTM D785
Tensile Strength at Break	51.7 MPa	7500 psi	ASTM D638
Elongation at Break	75 %	75 %	ASTM D638
Flexural Strength	84.8 MPa	12300 psi	ASTM D790
Flexural Modulus	2.00 GPa	290 ksi	ASTM D790
Izod Impact, Notched	0.534 J/cm @Thickness 3.17 mm, Temperature -40.0 °C	1.00 ft-lb/in @Thickness 0.125 in, Temperature -40.0 °F	ASTM D256
	1.01 J/cm @Thickness 3.17 mm, Temperature 0.000 °C	1.90 ft-lb/in @Thickness 0.125 in, Temperature 32.0 °F	ASTM D256
	5.34 J/cm @Thickness 3.17 mm, Temperature 22.8 °C	10.0 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)	93.3 °C	200 °F	Unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	75.6 °C	168 °F	Unannealed; ASTM D648

Thermal Properties	Metric	English	Comments
Flammability, UL94	@Thickness 1.50 mm	@Thickness 0.0591 in	

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