

Techmer ES Plastiblend® ABS NAT

Category : Polymer , Thermoplastic , ABS Polymer

Material Notes:

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

Order this product through the following link:

http://www.lookpolymers.com/polymer_Techmer-ES-Plastiblend-ABS-NAT.php

Physical Properties	Metric	English	Comments
Density	1.04 g/cc	0.0376 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	4.5 g/10 min @Load 3.80 kg, Temperature 230 °C	4.5 g/10 min @Load 8.38 lb, Temperature 446 °F	ASTM D1238
	21 g/10 min @Load 10.0 kg, Temperature 200 °C	21 g/10 min @Load 22.0 lb, Temperature 392 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	103	103	ASTM D785
Tensile Strength at Break	33.8 MPa	4900 psi	ASTM D638
Elongation at Break	3.5 %	3.5 %	ASTM D638
Flexural Strength	64.8 MPa	9400 psi	ASTM D790
Flexural Modulus	2.28 GPa	330 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
	2.99 J/cm @Thickness 3.17 mm, Temperature 22.8 °C	5.60 ft-lb/in @Thickness 0.125 in, Temperature 73.0 °F	ASTM D256

Thermal Properties	Metric	English	Comments
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Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (264 psi)	172.8 °C	321.0 °F	Unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	77.8 °C	172.0 °F	Unannealed; ASTM D648

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