

Techmer ES Electrafil® J-1200/CF/40 NAT ABS

Category : Polymer , Thermoplastic , ABS Polymer , Acrylonitrile Butadiene Styrene (ABS), 40% Carbon Fiber Filled

Material Notes:

Order this product through the following link:

http://www.lookpolymers.com/polymer_Techmer-ES-Electrafil-J-1200CF40-NAT-ABS.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.24 g/cc	1.24 g/cc	ASTM D792
Water Absorption	0.20 %	0.20 %	24 Hrs; ASTM D570
Linear Mold Shrinkage	0.00050 cm/cm	0.00050 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	117 MPa	17000 psi	ASTM D638
Elongation at Break	1.0 %	1.0 %	ASTM D638
Flexural Strength	152 MPa	22000 psi	ASTM D790
Flexural Modulus	15.9 GPa	2300 ksi	ASTM D790
Izod Impact, Notched	0.534 J/cm	1.00 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear	18.0 - 21.6 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$ @Temperature 20.0 $\text{Å}^\circ\text{C}$	10.0 - 12.0 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$ @Temperature 68.0 $\text{Å}^\circ\text{F}$	ASTM D696

Electrical Properties	Metric	English	Comments
Surface Resistivity per Square	1.0 - 10 ohm	1.0 - 10 ohm	ASTM D648

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