

PolyOne Stat-Tech™ RA-06CF-09GF/000 Polyarylsulfone - 9% Glass Fiber - 6% Carbon Fiber Reinforced - ESD Applications &a

Category : Polymer , Thermoplastic , Polyarylsulfone (PAS) , Polyarylsulfone (PAS), Carbon Fiber Filled

Material Notes:

Data provided by PolyOne.

Order this product through the following link:

http://www.lookpolymers.com/polymer_PolyOne-Stat-Tech-RA-06CF-09GF000-Polyarylsulfone-9-Glass-Fiber-6-Carbon-Fiber-Reinforced-ESD-Applications-a.php

Physical Properties	Metric	English	Comments
Density	1.44 g/cc	0.0520 lb/in ³	ASTM D792
Water Absorption	0.38 %	0.38 %	24 hrs. ASTM D570
Linear Mold Shrinkage	0.0020 cm/cm @Thickness 3.17 mm	0.0020 in/in @Thickness 0.125 in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	98	98	ASTM D785
Tensile Strength, Ultimate	131 MPa	19000 psi	ASTM D638
Elongation at Break	3.0 - 4.0 %	3.0 - 4.0 %	ASTM D638
Flexural Yield Strength	207 MPa	30000 psi	ASTM D790
Flexural Modulus	7.60 GPa	1100 ksi	ASTM D790
Izod Impact, Notched	0.640 J/cm @Thickness 6.35 mm	1.20 ft-lb/in @Thickness 0.250 in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear	39.6 µm/m-°C @Temperature 20.0 °C	22.0 µin/in-°F @Temperature 68.0 °F	ASTM D696
Deflection Temperature at 1.8 MPa (264 psi)	213 °C	415 °F	ASTM D648
Flammability, UL94	V-0	V-0	CTi Test V-0

Electrical Properties	Metric	English	Comments
Surface Resistance	1.00e+6 - 1.00e+10 ohm	1.00e+6 - 1.00e+10 ohm	ASTM D257

Processing Properties	Metric	English	Comments
Melt Temperature	343 - 377 °C	649 - 711 °F	Stock
Mold Temperature	121 - 149 °C	250 - 300 °F	
Drying Temperature	135 °C	275 °F	

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