

PolyOne Stat-Tech™ PC-08CF/000 FR V0 Polycarbonate (PC)

Category : Polymer , Thermoplastic , Polycarbonate (PC)

Material Notes:

Stat-Tech™ Electrically Conductive Compounds are specifically engineered to provide anti-static, ESD and RFI/EMI shielding performance for critical electronic equipment applications. These compounds combine the performance of select engineering resins with reinforcing additives such as carbon powder, carbon fiber, nickel-coated carbon fiber and stainless steel fiber, for low-to-high levels of conductivity depending upon application requirements. Information provided by PolyOne

Order this product through the following link:

http://www.lookpolymers.com/polymer_PolyOne-Stat-Tech-PC-08CF000-FR-V0-Polycarbonate-PC.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.24 g/cc	1.24 g/cc	ASTM D792
Linear Mold Shrinkage, Flow	0.0020 - 0.0030 cm/cm	0.0020 - 0.0030 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	86.2 MPa	12500 psi	Type I, 5.1 mm/min; ASTM D638
Elongation at Break	5.0 - 10 %	5.0 - 10 %	Type I, 5.1 mm/min; ASTM D638
Tensile Modulus	2.07 GPa	300 ksi	Type I, 5.1 mm/min; ASTM D638
Flexural Strength	172 MPa	24900 psi	ASTM D790
Flexural Modulus	2.76 GPa	400 ksi	ASTM D790
Izod Impact, Notched	0.910 J/cm @Thickness 6.35 mm, Temperature 23.0 °C	1.70 ft-lb/in @Thickness 0.250 in, Temperature 73.4 °F	Injection Molded; ASTM D256A

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	139 °C @Thickness 6.35 mm	282 °F @Thickness 0.250 in	Unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	133 °C @Thickness 6.35 mm	271 °F @Thickness 0.250 in	Unannealed; ASTM D648
Flammability, UL94	V-0 @Thickness 0.794 mm	V-0 @Thickness 0.0313 in	Internal Method
	V-0 @Thickness 1.50 mm	V-0 @Thickness 0.0591 in	Internal Method

Thermal Properties	V-0 Metric	V-0 English	Comments
	@Thickness 3.15 mm	@Thickness 0.124 in	

Electrical Properties	Metric	English	Comments
Surface Resistance	5.00e+8 - 5.00e+12 ohm	5.00e+8 - 5.00e+12 ohm	ASTM D257

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	290 - 310 °C	554 - 590 °F	
Middle Barrel Temperature	290 - 310 °C	554 - 590 °F	
Front Barrel Temperature	290 - 310 °C	554 - 590 °F	
Mold Temperature	80.0 - 110 °C	176 - 230 °F	
Drying Temperature	120 - 130 °C	248 - 266 °F	
Dry Time	4.00 - 6.00 hour	4.00 - 6.00 hour	

Descriptive Properties	Value	Comments
Additive	Antistatic	
Features	Antistatic	
	Electromagnetic Shielding (EMI)	
	ESD Protection	
	Flame Retardant	
	Radio Frequency Shielding (RFI)	
Filler / Reinforcement	Carbon Fiber Reinforcement, 8.0% Filler by Weight	
Forms	Pellets	
Generic Material	PC	
Generic Name	Polycarbonate (PC)	
Processing Method	Injection Molding	
Regional Availability	Africa & Middle East	
	Asia Pacific	
	Europe	
	North America	

Descriptive Properties	Value	Comments
RoHS Compliance	RoHS Compliant	
Uses	Aerospace Applications	
	Automotive Under the Hood	
	Business Equipment	
	Electrical/Electronic Applications	
	Housings	
	Printer Parts	

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