

Parker Chomerics PREMIER™ A230-ST EMI Shielding Plastic

Category : Polymer , Thermoplastic , ABS Polymer , Polycarbonate/ABS Alloy, Carbon Fiber Filled , Polycarbonate (PC)

Material Notes:

Description: PREMIER™ is the world's first and most versatile commercially available conductive thermoplastic for real world EMI shielding solutions. It is a blend of PC/ABS thermoplastic polymer alloys and conductive fillers engineered for stable electrical, mechanical, and physical performance. The conductive filler technology utilizes nickel plated carbon (Ni-C) fibers as the base filler. In the case of higher shielding versions, Nickel-Graphite (Ni-C) powder is blended with the fiber base to deliver enhanced performance. Combined with standard injection molding processes, PREMIER technology delivers evenly dispersed filler throughout a part's geometry. PREMIER parts have no resin rich areas prone to EMI leaks, and no brittle, resin poor areas that can break under mechanical stress. PREMIER provides world class shielding effectiveness, requires no machining, plating, painting, vacuum coating, or other added processing steps. The elimination of secondary operations can reduce costs by up to 50% compared to die castings, bent formed metal, machined extrusions and plated. Information provided by Chomerics

Order this product through the following link:

http://www.lookpolymers.com/polymer_Parker-Chomerics-PREMIER-A230-ST-EMI-Shielding-Plastic.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.31 g/cc	1.31 g/cc	ASTM D3763

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	88.3 MPa	12800 psi	ASTM D638
Elongation at Break	1.02 %	1.02 %	ASTM D638
Tensile Modulus	11.1 GPa	1610 ksi	ASTM D638
Flexural Strength	131 MPa	19000 psi	ASTM D790
Flexural Modulus	8.10 GPa	1170 ksi	ASTM D790
Izod Impact, Notched	0.930 J/cm	1.74 ft-lb/in	ASTM D412
Izod Impact, Unnotched	2.33 J/cm	4.37 ft-lb/in	ASTM D412

Thermal Properties	Metric	English	Comments
CTE, linear	0.150 µm/m-°C	0.0833 µin/in-°F	ASTM D696
Thermal Conductivity	0.590 W/m-K	4.09 BTU-in/hr-ft²-°F	ASTM D5470
Deflection Temperature at 1.8 MPa (264 psi)	123 °C	253 °F	ASTM D648
UL RTI, Mechanical without Impact	105 °C	221 °F	UI746B

Electrical Properties	Metric	English	Comments
Surface Resistance	0.060 ohm	0.060 ohm	
Surface Resistivity per Square	0.50 ohm	0.50 ohm	

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	260 - 275 °C	500 - 527 °F	
Middle Barrel Temperature	260 - 275 °C	500 - 527 °F	
Front Barrel Temperature	260 - 275 °C	500 - 527 °F	
Nozzle Temperature	260 - 275 °C	500 - 527 °F	
Melt Temperature	260 - 270 °C	500 - 518 °F	
Mold Temperature	41.0 - 49.0 °C	106 - 120 °F	
Dry Time	3 - 4 hour	3 - 4 hour	Typical
	@Temperature 95.0 - 100 °C	@Temperature 203 - 212 °F	
	8 hour	8 hour	Maximum
	@Temperature 95.0 - 100 °C	@Temperature 203 - 212 °F	
Moisture Content	0.040 %	0.040 %	Suggested Maximum
Back Pressure	>= 2.07 MPa	>= 300 psi	
Clamp Pressure	40.0 - 70.0 MPa	5800 - 10200 psi	[Mpa/cm²]
Screw Speed	95 - 130 rpm	95 - 130 rpm	760 - 1000 cm/min
	@Diameter 25.0 mm	@Diameter 0.984 in	

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