

PREMIER™ A220-FR

Polycarbonate + ABS

Chomerics, div. of Parker Hannifin Corp.

Message:

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.

General Information			
Filler / Reinforcement	Nickel-Coated Carbon Fiber		
Features	Electrically Conductive		
	Electromagnetic Shielding (EMI)		
	Good Corrosion Resistance		
	Halogen Free		
	High Tensile Strength		
	Low Density		
	Non-Corrosive		
	Recyclable Material		
Uses	Automotive Applications		
	Consumer Applications		
	Electrical/Electronic Applications		
	Industrial Applications		
	Military Applications		
	Telecommunications		
Agency Ratings	EU Unspecified Rating		
RoHS Compliance	RoHS Compliant		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.20	g/cm ³	ASTM D3763
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	7500	MPa	ASTM D638
Tensile Strength (Break)	68.3	MPa	ASTM D638
Tensile Elongation (Break)	1.0	%	ASTM D638
Flexural Modulus	5200	MPa	ASTM D790
Flexural Strength	109	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	58	J/m	ASTM D412

Unnotched Izod Impact	200	J/m	ASTM D412
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	100	°C	ASTM D648
CLTE - Flow	2.8E-5	cm/cm/°C	ASTM D696
Thermal Conductivity	0.56	W/m/K	ASTM D5470
RTI Elec	70.0	°C	UL 746
RTI Imp	70.0	°C	UL 746
RTI Str	70.0	°C	UL 746
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	4.5	ohms	
Volume Resistivity	0.80	ohms · cm	
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.50 mm)	V-0		UL 94

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