PREMIER™ A220-HT

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/cm³	ASTM D3763
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	5800	MPa	ASTM D638
Tensile Strength (Break)	67.6	MPa	ASTM D638
Tensile Elongation (Break)	1.0	%	ASTM D638
Flexural Modulus	5200	MPa	ASTM D790
Flexural Strength	110	MPa	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact	75	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)	122	°C	ASTM D648
CLTE - Flow	2.6E-5	cm/cm/°C	ASTM D696
Thermal Conductivity	0.56	W/m/K	ASTM D5470
RTI Elec	85.0	°C	UL 746
RTI Imp	85.0	°C	UL 746
RTI Str	85.0	°C	UL 746
Electrical	**Nominal Value**	**Unit**	
Surface Resistivity	4.5	ohms	
Volume Resistivity	0.80	ohms·cm	

Recommended distributors for this material

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