Carbo-Rite™ F-1450

Polyetheretherketone

Lubrizol Advanced Materials, Inc.

Message:

Carbo-Rite™ F-1450 is a Polyetheretherketone (PEEK) compound containing carbon fiber and carbon powder, available in pellet form. Carbo-Rite™ F-1450 solves a wide range of static decay, static shielding and electromagnetic shielding problems.
FEATURES
Consistent conductive performance
Durable
High temperature ESD protection
APPLICATIONS
Wafer cassettes
Hard disk drive component trays

General Information			
Filler / Reinforcement	Carbon Fiber		
	Carbon Powder		
Features	Durable		
	Electromagnetic Shielding (EMI)		
	ESD Protection		
	Rapid Static Decay		
Uses	Computer Components		
	Electrical/Electronic Applications		
Appearance	Black		
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.40	g/cm³	ASTM D792
Molding Shrinkage - Flow	0.40 to 0.60	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	9650	MPa	ASTM D638
Tensile Strength (Break)	179	MPa	ASTM D638
Tensile Elongation (Break)	3.0	%	ASTM D638
Flexural Modulus	14500	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	59	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	> 300	°C	ASTM D648
Electrical	Nominal Value	Unit	Test Method
Static Decay - 1000V to 10V	0.1	sec	CPM

Surface Resistance	< 1.0E+6	ohms	ESD S11.11
Volume Resistance (3.20 mm)	< 1.0E+6	ohms	ESD S11.12

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Recommended distributors for this material

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WECHAT