

Carbo-Rite™ A-1440

Polyetheretherketone

Lubrizol Advanced Materials, Inc.

Message:

Carbo-Rite™ A-1440 is an electrostatically conductive polyetheretherketone (PEEK) based compound containing carbon nanotubes. Carbo-Rite™ A-1440 solves a wide range of static buildup, static shielding and electromagnetic shielding problems.

General Information			
Filler / Reinforcement	Carbon Nano		
Features	Durable		
	Electromagnetic Shielding (EMI)		
	ESD Protection		
	High Heat Resistance		
	Low (to None) Ion Content		
	Statically Conductive		
Uses	Electrical/Electronic Applications		
Appearance	Black		
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.32	g/cm ³	ASTM D792
Molding Shrinkage - Flow	1.7	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	3800	MPa	ASTM D638
Tensile Strength (Break)	75.0	MPa	ASTM D638
Tensile Elongation (Break)	2.8	%	ASTM D638
Flexural Modulus	5180	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	52	J/m	ASTM D256
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity ¹	< 1.0E+6	ohms	ESD S11.11
Volume Resistivity ² (3.19 mm)	< 1.0E+6	ohms·cm	ESD S11.12
Static Decay - 1000 V to 10 V ³	< 0.1	sec	
NOTE			
1.	12% RH		
2.	12% RH		
3.	Charged Plate Monitor, 12% RH		

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