Carbo-Rite™ X-5490

Polycarbonate

Lubrizol Advanced Materials, Inc.

Message:

Carbo-Rite™ X-5490 is a Polycarbonate compound with carbon nanotube added for enhanced electrical, mechanical and cleanliness performance. Available in pellet form for injection molding applications, Carbo-Rite™ X-5490 solves a wide range of electrostatic discharge problems.
FEATURES
Consistent performance
Durable
Recyclable
APPLICATIONS
Hard disk drive component trays
Media cassettes

General Information			
Filler / Reinforcement	Carbon Nano		
Features	Clean/High Purity Durable Good Electrical Properties Rapid Static Decay Recyclable Material		
Uses	Computer Components Electrical/Electronic Applications		
Appearance	Black		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	1.20	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (300°C/5.0 kg)	23	g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.50 to 0.80	%	ASTM D955
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	2000	MPa	ASTM D638
Tensile Strength (Break)	52.4	MPa	ASTM D638
Tensile Elongation (Break)	17	%	ASTM D638
Flexural Modulus	2860	MPa	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact	160	J/m	ASTM D256
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	136	°C	
1.8 MPa, Unannealed	111	°C	

Electrical	Nominal Value	Unit	Test Method
Static Decay - 1000V to 10V	0.1	sec	CPM
Surface Resistance	< 1.0E+7	ohms	ESD S11.11
Ionic Content [1]			Internal Method
Cl Anion	1.00	ng/cm²	
NO3 Anion	ND		
SO4 Anion	1.00	ng/cm²	
Outgassing [2]			Internal Method
Acrylates	0.00	ng/g	
Styrene	3.00	ng/g	
Toluene	16.0	ng/g	
Total Outgassing	88.0	ng/g	

NOTE	
1.	Test Method #3010-4
2.	Test Method #3010-3

Recommended distributors for this material

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