

Carbo-Rite™ B-951

Polycarbonate

Lubrizol Advanced Materials, Inc.

Message:

Carbo-Rite™ B-951 is a carbon black-filled Polycarbonate compound available in pellet form. Carbo-Rite™ B-951 solves a wide range of static decay, static shielding and electromagnetic shielding problems.

FEATURES

- Consistent performance
- Durable
- Recyclable
- High temperature ESD protection

APPLICATIONS

- PCB racks
- Media cassettes
- Component handling trays

General Information			
Additive	Carbon Black		
Features	Durable		
	Electromagnetic Shielding (EMI)		
	ESD Protection		
	Rapid Static Decay		
	Recyclable Material		
Uses	Electrical/Electronic Applications		
	Racks		
Appearance	Black		
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.26	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (300°C/2.16 kg)	10	g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.60 to 0.80	%	ASTM D955
Water Absorption (24 hr)	0.16	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2280	MPa	ASTM D638
Tensile Strength (Break)	55.2	MPa	ASTM D638
Tensile Elongation (Break)	5.0	%	ASTM D638
Flexural Modulus	2960	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	48	J/m	ASTM D256
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	< 5.0E+5	ohms · cm	ASTM D257

Surface Resistivity - 50% R.H.	< 500000	ohms/sq	ASTM D257
Ionic Content ¹			Internal Method
Cl Anion	4.50	ng/cm ²	
NO3 Anion	8.00	ng/cm ²	
PO4 Anion	2.50	ng/cm ²	
SO4 Anion	11.5	ng/cm ²	
Outgassing ²			Internal Method
MMA	< 0.0300	µg/g	
Styrene	0.200	µg/g	
Toluene	0.0500	µg/g	
Total Organics	4.50	µg/g	

NOTE

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

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