

# Carbo-Rite™ B-980

Polycarbonate

Lubrizol Advanced Materials, Inc.

## Message:

Carbo-Rite™ B-980 is a reinforced Polycarbonate compound with carbon powder added for electrical consistency. Carbo-Rite™ B-980 solves a wide range of electronic handling problems through consistent dimensional stability and ESD performance.

General Information			
Filler / Reinforcement	Glass Fiber		
Additive	Carbon Black		
Features	ESD Protection		
	Good Dimensional Stability		
	High Heat Resistance		
Uses	Electrical/Electronic Applications		
Appearance	Black		
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.32	g/cm <sup>3</sup>	ASTM D792
Melt Mass-Flow Rate (MFR) (300°C/5.0 kg)	17	g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.30 to 0.50	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	3100	MPa	ASTM D638
Tensile Strength (Yield)	76.0	MPa	ASTM D638
Tensile Elongation (Break)	3.0	%	ASTM D638
Flexural Modulus	4310	MPa	ASTM D790
Flexural Strength	120	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	47	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	137	°C	ASTM D648
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity <sup>1</sup>	< 1.0E+5	ohms	ASTM D257
Volume Resistivity <sup>2</sup>	< 1.0E+4	ohms · cm	ASTM D257
Static Decay - 1000 V to 10 V <sup>3</sup>	< 0.1	sec	
Ionic Content			Internal Method
Anions Cl-	< 0.00400	ng/cm <sup>2</sup>	
Anions NO3-	< 0.00400	ng/cm <sup>2</sup>	
Anions PO4-	ND		
Anions SO4-	< 0.00400	ng/cm <sup>2</sup>	

Outgassing		Internal Method
Hydrocarbon	0.0740	µg/g
Phenol/Alcohol	ND	
Siloxanes	ND	
Total Organics	0.0740	µg/g

#### NOTE

1. 50% RH
2. 50% RH
3. Charged Plate Monitor

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#### Recommended distributors for this material

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