

# Carbo-Rite™ X-5362

Polyphenylene  
Lubrizol Advanced Materials, Inc.

Message:

Carbo-Rite™ X-5362 is a carbon black-filled Polyphenylene Oxide compound available in pellet form. Carbo-Rite X-5362 solves a wide range of static decay, static shielding and electromagnetic shielding problems.

- FEATURES
- Cost-effective ESD protection
  - Consistent performance
  - Recyclable
  - Durable
- APPLICATIONS

Thermoformed trays requiring higher heat capability and stiffness retained at elevated temperature for extended periods of time.

General Information	
Additive	Carbon Black
Features	Durable
	Electromagnetic Shielding (EMI)
	ESD Protection
	Good Heat Aging Resistance
	Good Stiffness
	High Heat Resistance
	Rapid Static Decay
	Recyclable Material
Uses	Electrical/Electronic Applications
	Sheet
	Thermoforming Applications
Appearance	Black
Forms	Pellets
Processing Method	Extrusion
	Thermoforming

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.14	g/cm <sup>3</sup>	ASTM D792
Molding Shrinkage - Flow	0.60 to 0.90	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2160	MPa	ASTM D638
Tensile Strength (Break)	55.8	MPa	ASTM D638
Tensile Elongation (Break)	11	%	ASTM D638
Flexural Modulus	2790	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method

Notched Izod Impact (3.18 mm)	120	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	145	°C	
1.8 MPa, Unannealed	110	°C	
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	< 1.0E+4	ohms·cm	ESD S11.12
Surface Resistance	< 10000	ohms	ESD S11.11

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#### Recommended distributors for this material

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