

# Carbo-Rite™ M-2530

High Impact Polystyrene  
Lubrizol Advanced Materials, Inc.

Message:

Carbo-Rite™ M-2530 is a carbon black-filled HIPS compound available in pellet form. Carbo-Rite™ M-2530 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, Tape & Reel Carrier Tape, Extruded conductive HIPS sheet

General Information	
Additive	Carbon Black
Features	Durable
	Electrically Conductive
	Electromagnetic Shielding (EMI)
	ESD Protection
	Recyclable Material
Uses	Electrical/Electronic Applications
	Sheet
	Tape
Appearance	Black
Forms	Pellets
Processing Method	Sheet Extrusion
	Thermoforming

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.09	g/cm <sup>3</sup>	ASTM D792
Molding Shrinkage - Flow	1.0 to 1.2	%	ASTM D955
Water Absorption (24 hr)	0.010	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1360	MPa	ASTM D638
Tensile Strength (Break)	24.0	MPa	ASTM D638
Tensile Elongation (Break)	16	%	ASTM D638
Flexural Modulus	2070	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.18 mm)	190	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	62.0	°C	ASTM D648
Electrical	Nominal Value	Unit	Test Method


Surface Resistivity <sup>1</sup>	5.0E+4	ohms	ESD S11.11
Volume Resistivity <sup>2</sup>	5.0E+6	ohms·cm	ESD S11.12
Additional Information	Nominal Value	Unit	Test Method
Ionic Content			Internal Method
Anions Cl-	< 0.0100	µg/cm <sup>2</sup>	
Anions NO3-	ND		
Anions PO4-	ND		
Anions SO4-	ND		
Outgassing			Internal Method
MMA	0.00	µg/cm <sup>2</sup>	
Styrene	290	µg/cm <sup>2</sup>	
Toluene	12.0	µg/cm <sup>2</sup>	
NOTE			
1.	12% RH		
2.	12% RH		

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Recommended distributors for this material

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