

Technical Data Sheet

Type: Carbo-Rite™ B-515N is a carbon black-filled *High Impact Polystyrene* compound available in pellet form. Carbo-Rite™ B-515N solves a wide range of static decay, static shielding and electromagnetic shielding problems.

Features: Consistent and permanent ESD protection, good rigidity

Applications: Extruded sheets for thermoformed tray, electronic component packaging trays

Physical Properties	B-515N	Unit	Test Method
Host Polymer	High Impact Polystyrene (HIPS)		
Filler	Carbon Black		
Color	Black		
Specific Gravity	1.10		ASTM D-792
Melt Flow (200 °C/10kg)	4	g/10min	ASTM D-1238
Electrical Properties			
Surface Resistance	< 1 x 10 ⁶	Ω	ESD S11.11 (12%RH)
Volume Resistance (3.2 mm)	< 1 x 10 ⁶	Ω	ESD S11.12 (12%RH)
Static Decay Rate: 1000 V – 10 V	0.1	Seconds	Charged Plate Monitor
Mechanical Properties			
Tensile Strength at Yield	3700 (26)	Psi (MPa)	ASTM D-638
Tensile Elongation at Break	38	%	ASTM D-638
Tensile Modulus	260,000 (1790)	Psi (MPa)	ASTM D-638
Flexural Modulus	300,000 (2070)	Psi (MPa)	ASTM D-790
Notched Izod Impact Strength	1.4 (75)	Ft-lb/in (J/m)	ASTM D-256
HDT (264 psi)	70 (158)	°C (°F)	ASTM D-648

• These are typical lab values and should not be used for establishing product specifications. Contact Lubrizol if you need data for this purpose.

Supply Form and Standard Packaging

• Carbo-Rite™ B-515N is available in pellet form only.

Handling Considerations

• Carbo-Rite™ B-515N should be stored in a cool, dry place away from direct sunlight. For best results, always keep the material unopened in factory packaging until use, and follow the recommended drying procedure before processing. Lubrizol recommend using the material within 6 months from the date of manufacturing.

For further information refer to Lubrizol Advanced Materials processing guides.

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