



Trilliant™ HC HC7300-0013 ESD Black

Acrylonitrile Butadiene Styrene

Key Characteristics

General			
Material Status	• Commercial: Active		
Regional Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Filler / Reinforcement	• Carbon Fiber, 13% Filler by Weight		
Features	• Antistatic • Conductive	• Electrically Conductive • Statically Conductive	
Uses	• Computer Components • Connectors • Electrical Housing	• Electrical/Electronic Applications • Housings • Medical Device Housings	• Medical/Healthcare Applications
RoHS Compliance	• RoHS Compliant		
Forms	• Pellets		
Processing Method	• Injection Molding		

Technical Properties ¹

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Specific Gravity	1.11	1.11	ASTM D792
Molding Shrinkage - Flow	5.0E-4 to 2.0E-3 in/in	0.050 to 0.20 %	ASTM D955
Molding Shrinkage - Across Flow	4.0E-3 to 6.0E-3 in/in	0.40 to 0.60 %	ASTM D955
Mechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Modulus ²	1.12E+6 psi	7720 MPa	ASTM D638
Tensile Strength (Break)	11400 psi	78.6 MPa	ASTM D638
Tensile Elongation ² (Break)	1.5 %	1.5 %	ASTM D638
Flexural Modulus	1.25E+6 psi	8620 MPa	ASTM D790
Flexural Strength	17800 psi	123 MPa	ASTM D790
Impact	Typical Value (English)	Typical Value (SI)	Test Method
Notched Izod Impact 73°F (23°C), 0.125 in (3.18 mm), Injection Molded	0.80 ft·lb/in	43 J/m	ASTM D256A
Thermal	Typical Value (English)	Typical Value (SI)	Test Method
Deflection Temperature Under Load 66 psi (0.45 MPa), Unannealed, 0.250 in (6.35 mm)	216 °F	102 °C	ASTM D648
Deflection Temperature Under Load 264 psi (1.8 MPa), Unannealed, 0.250 in (6.35 mm)	207 °F	97.0 °C	ASTM D648
Electrical	Typical Value (English)	Typical Value (SI)	Test Method
Surface Resistivity	1.0E+3 to 1.0E+5 ohms	1.0E+3 to 1.0E+5 ohms	ASTM D257
Volume Resistivity	1.0E+3 to 1.0E+5 ohms·cm	1.0E+3 to 1.0E+5 ohms·cm	ASTM D257
Static Decay - (Mil-B-81705C), 12% RH, 5000 kV to 50 kV	2 msec	2 msec	

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Flammability	Typical Value (English)	Typical Value (SI)	Test Method
Flame Rating			UL 94
0.0295 in (0.750 mm)	HB	HB	
0.0591 in (1.50 mm)	HB	HB	
0.118 in (3.00 mm)	HB	HB	

Processing Information

Injection	Typical Value (English)	Typical Value (SI)
Processing (Melt) Temp	440 to 460 °F	227 to 238 °C

Notes

¹ Typical values are not to be construed as specifications.

² Type I, 0.20 in/min (5.1 mm/min)

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