

PolyOne Trilliant™ HC HC7300-0013 ESD Black Acrylonitrile Butadiene Styrene (ABS)

Category : Polymer , Thermoplastic , ABS Polymer

Material Notes:

Information provided by PolyOne

Order this product through the following link:

http://www.lookpolymers.com/polymer_PolyOne-Trilliant-HC-HC7300-0013-ESD-Black-Acrylonitrile-Butadiene-Styrene-ABS.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.11 g/cc	1.11 g/cc	ASTM D792
Linear Mold Shrinkage, Flow	0.00050 - 0.0020 cm/cm	0.00050 - 0.0020 in/in	ASTM D955
Linear Mold Shrinkage, Transverse	0.0040 - 0.0060 cm/cm	0.0040 - 0.0060 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	78.6 MPa	11400 psi	ASTM D638
Elongation at Break	1.5 %	1.5 %	Type I, 5.1 mm/min; ASTM D638
Tensile Modulus	7.72 GPa	1120 ksi	Type I, 5.1 mm/min; ASTM D638
Flexural Strength	123 MPa	17800 psi	ASTM D790
Flexural Modulus	8.62 GPa	1250 ksi	ASTM D790
Izod Impact, Notched	0.430 J/cm @Thickness 3.18 mm, Temperature 23.0 °C	0.806 ft-lb/in @Thickness 0.125 in, Temperature 73.4 °F	Injection Molded; ASTM D256A

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	102 °C @Thickness 6.35 mm	216 °F @Thickness 0.250 in	Unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	97.0 °C @Thickness 6.35 mm	207 °F @Thickness 0.250 in	Unannealed; ASTM D648
Flammability, UL94	HB	HB	Internal Method

Electrical Properties	Metric	English	Comments
Volume Resistivity	1000 ohm-cm - 1e+05	1000 ohm-cm - 1e+05	ASTM D257
Surface Resistance	1000 ohm - 1e+05	1000 ohm - 1e+05	ASTM D257

Electrical Properties	Metric	English	Comments
Static Decay	0.0020 sec	0.0020 sec	(MI-B-81705C), 12% RH, 5000 kV to 50 kV

Processing Properties	Metric	English	Comments
Melt Temperature	227 - 238 °C	441 - 460 °F	

Descriptive Properties	Value	Comments
Features	Antistatic	
	Conductive	
	Electrically Conductive	
	Statically Conductive	
Filler / Reinforcement	Carbon Fiber Reinforcement, 13% Filler by Weight	
Forms	Pellets	
Generic Material	ABS	
Generic Name	Acrylonitrile Butadiene Styrene (ABS)	
Processing Method	Injection Molding	
Regional Availability	Africa & Middle East	
	Asia Pacific	
	Europe	
	North America	
	South America	
RoHS Compliance	RoHS Compliant	
Uses	Computer Components	
	Connectors	
	Electrical Housing	
	Electrical/Electronic Applications	
	Housings	
	Medical Device Housings	
	Medical/Healthcare Applications	

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