

InElec® ABSNCCF20

Americhem - Acrylonitrile Butadiene Styrene

General Information

Product Description

20% NICKEL COATED CARBON FIBER REINFORCED, ELECTRICALLY CONDUCTIVE, EMI/RFI SHIELDING, ACRYLONITRILE BUTADIENE STYRENE

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Filler / Reinforcement	• Nickel-Coated Carbon Fiber, 20% Filler by Weight		
Features	• Electrically Conductive • Electromagnetic Shielding (EMI) • ESD Protection	• Good Dimensional Stability • High Stiffness • High Strength	• Permanent Antistatic • Radio Frequency Shielding (RFI)
Uses	• Consumer Applications • Electrical/Electronic Applications	• Household Goods • Industrial Applications	• Industrial Parts
Forms	• Pellets		
Processing Method	• Injection Molding		

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.20		ASTM D792
Molding Shrinkage - Flow (0.125 in)	5.0E-4 to 1.0E-3	in/in	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	12500	psi	ASTM D638
Tensile Elongation (Yield)	1.0 to 2.0	%	ASTM D638
Flexural Modulus	1.40E+6	psi	ASTM D790
Flexural Strength	22000	psi	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	0.90	ft-lb/in	ASTM D256
Unnotched Izod Impact	5.0 to 7.0	ft-lb/in	ASTM D4812
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (264 psi, Unannealed)	220	°F	ASTM D648
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0 to 1.0E+2	ohms	ASTM D257

Processing Information

Injection	Nominal Value	Unit
Drying Temperature	180	°F
Drying Time	2.0	hr
Processing (Melt) Temp	450	°F
Mold Temperature	150 to 200	°F
Back Pressure	50.0 to 100	psi
Screw Speed	40 to 70	rpm

Notes

¹ Typical properties: these are not to be construed as specifications.

