

InElec® ABSSS10

Americhem - Acrylonitrile Butadiene Styrene

General Information

Product Description

10% STAINLESS STEEL FIBER FILLED ABS

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Filler / Reinforcement	• Stainless Steel Fiber, 10% Filler by Weight		
Features	• Electrically Conductive • Electromagnetic Shielding (EMI)	• ESD Protection • 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	1.13		ASTM D792
Molding Shrinkage - Flow (0.125 in)	4.0E-3 to 7.0E-3	in/in	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	6250	psi	ASTM D638
Tensile Elongation (Yield)	3.0 to 5.0	%	ASTM D638
Flexural Modulus	415000	psi	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	1.1	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)	190	°F	ASTM D648
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0 to 1.0E+5	ohms	ASTM D257

Processing Information

Injection	Nominal Value	Unit
Drying Temperature	180	°F
Drying Time	3.0 to 4.0	hr
Suggested Max Moisture	0.075	%
Processing (Melt) Temp	460 to 490	°F
Mold Temperature	180	°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.

