

InElec® ABSSS15FR*Americhem - Acrylonitrile Butadiene Styrene***General Information****Product Description**

15% STAINLESS STEEL FIBER FILLED FLAME RETARDANT ABS

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Filler / Reinforcement	• Stainless Steel Fiber, 15% Filler by Weight		
Additive	• Flame Retardant		
Features	• Electrically Conductive • Electromagnetic Shielding (EMI) • ESD Protection	• Flame Retardant • Halogenated • 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	1.51		ASTM D792
Molding Shrinkage - Flow (0.125 in)	4.0E-3 to 6.0E-3	in/in	
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	4200	psi	ASTM D638
Tensile Elongation (Yield)	2.0 to 4.0	%	ASTM D638
Flexural Modulus	440000	psi	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	0.70	ft-lb/in	ASTM D256
Unnotched Izod Impact	2.0 to 3.0	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+3	ohms	ASTM D257
EMI Attenuation	40 to 60	dB	ASTM D4935

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
Vent Depth	1.5E-3 to 3.0E-3	in

Notes¹ Typical properties: these are not to be construed as specifications.