

InElec® POMCSS5

Americhem - Acetal (POM) Copolymer Alloy

General Information

Product Description

InElec POMCSS5 is a copolymer Acetal with Stainless Steel fiber

General

Material Status	• Commercial: Active
Availability	• Africa & Middle East • Asia Pacific • Europe • Latin America • North America
Filler / Reinforcement	• Nickel-Coated Carbon Fiber, 5.0% Filler by Weight
Features	• Permanent Antistatic
Uses	• Consumer Applications • Electrical/Electronic Applications • Engineering Parts • Industrial Applications • Office Automation Equipment
Forms	• Pellets
Processing Method	• Injection Molding

 Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.46		ASTM D792
Molding Shrinkage - Flow	0.010 to 0.020	in/in	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	430000	psi	ASTM D638
Tensile Strength	9000	psi	ASTM D638
Tensile Elongation (Yield)	10 to 12	%	ASTM D638
Flexural Modulus	450000	psi	ASTM D790
Flexural Strength	10000	psi	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (0.125 in)	2.0	ft·lb/in	ASTM D256
Unnotched Izod Impact (0.125 in)	9.0	ft·lb/in	ASTM D4812
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (264 psi, Unannealed)	212	°F	ASTM D648
CLTE - Flow	5.5E-5	in/in/°F	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	10 to 1.0E+4	ohms	
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.06 in)	HB		UL 94

Processing Information

Injection	Nominal Value	Unit
Drying Temperature	180	°F
Drying Time	4.0	hr
Processing (Melt) Temp	375 to 410	°F
Mold Temperature	200	°F
Back Pressure	50.0 to 100	psi
Screw Speed	30 to 60	rpm

