InElec® PSUCF10

Product Description 10% CARBON FIBER FILLED POLYSULFONE

Material Status Commercial: Active

Availability Africa & Middle East, Asia Pacific, Europe, Latin America, North America

Filler / Reinforcement Carbon Fiber, 10% Filler by Weight

Features Filled, Good Dimensional Stability, High Stiffness, High Strength, Permanent Antistatic

Uses Aerospace Applications, Connectors, Consumer Applications, Electrical/Electronic Applications, Engineering Parts, Industrial Applications, Industrial Parts, Metal Replacement, Military/Defense Applications, Oil/Gas Applications, Outdoor Applications, Semiconductor Applications

Forms Pellets

Processing Method Injection Molding

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.28	g/cm³	ASTM D792
Molding Shrinkage - Flow (3.18 mm)	0.30 to 0.40	%	ASTM D955

Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break)	96.5	MPa	ASTM D638
Tensile Elongation (Break)	2.0 to 3.0	%	ASTM D638
Flexural Modulus	6890	MPa	ASTM D790

Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	96	J/m	ASTM D256

Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
1.8 MPa, Unannealed	182	°C	

Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+2 to 1.0E+6	ohms	ASTM D257

Injection	Nominal Value	Unit
Drying Temperature	135	°C
Drying Time	3.0 to 4.0	hr
Rear Temperature	327 to 371	°C
Middle Temperature	327 to 371	°C
Front Temperature	327 to 371	°C
Processing (Melt) Temp	338 to 349	°C
Mold Temperature	149	°C

Properties provided are only typical values and Americhem assumes no liability for the customer's use of the information provided. The customer assumes all responsibility for testing determining this products suitability in the customer's specific end application.

Revision Date: 9/16/2024

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Injection	Nominal Value	Unit
Back Pressure	0.345 to 0.689	MPa
Screw Speed	40 to 70	rpm
Vent Depth	0.038 to 0.076	mm

Notes

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

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