InStruc® PVDFCF15

Product Description 15% CARBON FIBER REINFORCED PVDF

Material Status Commercial: Active

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

Filler / Reinforcement Carbon Fiber, 15% Filler by Weight

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

Uses Connectors, Consumer Applications, Electrical/Electronic Applications, Engineering Parts, Housings, Industrial Applications, Industrial Parts, Metal Replacement, Oil/Gas Applications, Pump Parts

Forms Pellets

Processing Method Injection Molding

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.76	g/cm³	ASTM D792
Molding Shrinkage - Flow (3.18 mm)	0.20 to 0.60	%	ASTM D955

Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	97.2	MPa	ASTM D638
Tensile Elongation (Yield)	1.0 to 3.0	%	ASTM D638
Flexural Modulus	7930	MPa	ASTM D790
Flexural Strength	134	MPa	ASTM D790

Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	80	J/m	ASTM D256
Unnotched Izod Impact	430 to 530	J/m	ASTM D4812

Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+3 to 1.0E+7	ohms	ASTM D257

Injection	Nominal Value	Unit
Drying Temperature	121	°C
Drying Time	4.0	hr
Processing (Melt) Temp	216 to 232	°C
Mold Temperature	66 to 93	°C
Back Pressure	0.345 to 0.689	MPa
Screw Speed	40 to 70	rpm

Notes

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

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.

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