InElec® PEEKCF30HF

Product Description 30% CARBON FIBER REINFORCED HIGH FLOW POLYETHERETHERKETONE

Material Status Commercial: Active

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

Filler / Reinforcement Carbon Fiber, 30% Filler by Weight

Features Electrically Conductive, ESD Protection, Filled, Good Dimensional Stability, High Flow, 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	1.41	g/cm³	ASTM D792
Molding Shrinkage - Flow	0.050 to 0.20	%	ASTM D955
Water Absorption (24 hr)	0.10	%	ASTM D570

Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	20700	MPa	ASTM D638
Tensile Strength	224	MPa	ASTM D638
Tensile Elongation (Yield)	1.5 to 2.0	%	ASTM D638
Flexural Modulus	17900	MPa	ASTM D790
Flexural Strength	321	MPa	ASTM D790

Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.18 mm)	64	J/m	ASTM D256
Unnotched Izod Impact (3.18 mm)	640	J/m	ASTM D4812

Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
1.8 MPa, Unannealed	316	°C	

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

Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.6 mm)	V-0		Internal Method

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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Polyetheretherketone

Injection	Nominal Value	Unit
Drying Temperature	149	°C
Drying Time	2.0 to 4.0	hr
Processing (Melt) Temp	349 to 399	°C
Mold Temperature	163 to 218	°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.

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