InStruc® PEEKGF15HFMD

Product Description 15% GLASS FIBER REINFORCED, HIGH FLOW POLYETHERETHERKETONE FOR HEALTHCARE APPLICATIONS.

Material Status Commercial: Active

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

Filler / Reinforcement Glass Fiber, 15% Filler by Weight

Features Autoclave Sterilizable, E-beam Sterilizable, Ethylene Oxide Sterilizable, Filled, Good Dimensional Stability, Heat Sterilizable, High Flow, High Stiffness, High Strength, Radiation Sterilizable, Steam Sterilizable

Uses Connectors, Electrical/Electronic Applications, Engineering Parts, Housings, Industrial Parts, Medical/Healthcare Applications, Metal Replacement, Semiconductor Applications, Surgical Instruments

Forms Pellets

Processing Method Injection Molding

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.40	g/cm³	ASTM D792
Molding Shrinkage - Flow	0.40 to 0.50	%	ASTM D955

Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	7580	MPa	ASTM D638
Tensile Strength	124	MPa	ASTM D638
Tensile Elongation (Yield)	2.0 to 3.0	%	ASTM D638
Flexural Modulus	6890	MPa	ASTM D790
Flexural Strength	214	MPa	ASTM D790

Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.18 mm)	59	J/m	ASTM D256
Unnotched Izod Impact (3.18 mm)	530	J/m	ASTM D955

Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
1.8 MPa, Unannealed	249	°C	

Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+17	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: 1/13/2025

Americhem World Headquarters
2000 Americhem Way
Cuyahoga Falls, OH 44221
Tel: +1 330 929 4213
Toll Free: +1 800 228 3476

Americhem Engineered Compounds
20 Progress Drive
Morrisvillle, PA 19067
Tel: +1 215 736 1126
Toll Free: +1 800 863 4260

InStruc® PEEKGF15HFMD

Polyetheretherketone

Injection	Nominal Value	Unit
Drying Temperature	149	°C
Drying Time	4.0	hr
Processing (Melt) Temp	349 to 393	°C
Mold Temperature	177 to 204	°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.

Revision Date: 1/13/2025

Americhem World Headquarters
2000 Americhem Way
Cuyahoga Falls, OH 44221
Tel: +1 330 929 4213
Toll Free: +1 800 228 3476

Americhem Engineered Compounds
20 Progress Drive
Morrisvillle, PA 19067
Tel: +1 215 736 1126
Toll Free: +1 800 863 4260