# InStruc® PEEKGF13HFMD

**Product Description** 13% 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, 13% Filler by Weight

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

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

**Forms** Pellets

**Processing Method** Injection Molding

| Physical | Nominal Value | Unit | Test Method |
|---|---|---|---|
| Density / Specific Gravity | 1.38 | g/cm³ | ASTM D792 |
| Molding Shrinkage - Flow | 0.40 to 0.50 | % | ASTM D955 |

| Mechanical | Nominal Value | Unit | Test Method |
|---|---|---|---|
| Tensile Modulus | 7200 | MPa | ASTM D638 |
| Tensile Strength | 110 | MPa | ASTM D638 |
| Tensile Elongation (Yield) | 2.0 to 3.0 | % | ASTM D638 |
| Flexural Modulus | 6700 | MPa | ASTM D790 |
| Flexural Strength | 200 | 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: 3/14/2025

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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.

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