

ColorFast® PEEK-2000MD

Americhem - Polyetheretherketone

General Information
Product Description

HIGH FLOW POLYETHERETHERKETONE (PEEK) FOR HEALTHCARE APPLICATIONS

General

| | | | |
|-------------------|--------------------------|-----------------------------------|-----------------|
| Material Status | • Commercial: Active | | |
| Availability | • Africa & Middle East | • Europe | • North America |
| | • Asia Pacific | • Latin America | |
| Features | • Excellent Colorability | • High Flow | |
| Uses | • Connectors | • Medical/Healthcare Applications | |
| | • Engineering Parts | • Surgical Instruments | |
| Forms | • Pellets | | |
| Processing Method | • Injection Molding | | |

Properties ¹

| Physical | Nominal Value | Unit | Test Method |
|---|----------------|----------|-----------------|
| Density / Specific Gravity | 1.30 | | ASTM D792 |
| Melt Mass-Flow Rate (MFR) (400°C/2.16 kg) | 36 | g/10 min | ASTM D1238 |
| Molding Shrinkage - Flow | 0.014 to 0.016 | in/in | ASTM D955 |
| Water Absorption (24 hr) | 0.10 | % | ASTM D570 |
| Mechanical | Nominal Value | Unit | Test Method |
| Tensile Modulus | 537000 | psi | ASTM D638 |
| Tensile Strength | 14800 | psi | ASTM D638 |
| Tensile Elongation (Yield) | 5.0 | % | ASTM D638 |
| Flexural Modulus | 550000 | psi | ASTM D790 |
| Flexural Strength | 22000 | psi | ASTM D790 |
| Impact | Nominal Value | Unit | Test Method |
| Notched Izod Impact (0.125 in) | 1.0 | ft·lb/in | ASTM D256 |
| Thermal | Nominal Value | Unit | Test Method |
| Deflection Temperature Under Load (264 psi, Unannealed) | 320 | °F | ASTM D648 |
| Flammability | Nominal Value | Unit | Test Method |
| Flame Rating (0.12 in) | V-0 | | Internal Method |

Processing Information

| Injection | Nominal Value | Unit |
|------------------------|---------------|------|
| Drying Temperature | 300 | °F |
| Drying Time | 4.0 | hr |
| Processing (Melt) Temp | 680 to 720 | °F |
| Mold Temperature | 350 to 400 | °F |
| Back Pressure | 50.0 to 100 | psi |
| Screw Speed | 40 to 70 | rpm |

