

Quantum PEEK 30% Glass Fiber Filled

Category : Polymer , Thermoplastic , Polyketone , Polyetheretherketone (PEEK) , Polyetheretherketone, PEEK, Glass Fiber Filled

Material Notes:

Information provided by Quantum Advanced Engineering Plastics

Order this product through the following link:

http://www.lookpolymers.com/polymer_Quantum-PEEK-30-Glass-Fiber-Filled.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.50 g/cc	1.50 g/cc	ASTM D792
Water Absorption	0.10 %	0.10 %	ASTM D570
Water Absorption at Saturation	0.30 %	0.30 %	ASTM D570

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	105	105	ASTM D785
Hardness, Rockwell R	126	126	ASTM D785
Hardness, Shore D	85	85	ASTM 2240
Tensile Strength	165 MPa	24000 psi	ASTM D638
Elongation at Break	3.0 %	3.0 %	ASTM D638
Tensile Modulus	8.96 GPa	1300 ksi	ASTM D638
Flexural Strength	193 MPa	28000 psi	ASTM D790
Flexural Modulus	9.31 GPa	1350 ksi	ASTM D790
Compressive Strength	179 MPa	26000 psi	ASTM D695
Shear Strength	96.5 MPa	14000 psi	ASTM D732
Izod Impact, Notched	0.747 J/cm	1.40 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear	21.6 $\mu\text{m}/\text{m}\cdot\text{°C}$	12.0 $\mu\text{in}/\text{in}\cdot\text{°F}$	ASTM D696
Thermal Conductivity	0.429 W/m-K	2.98 BTU-in/hr-ft ² -°F	ASTM C177
Melting Point	341 °C	645 °F	ASTM D3417
Maximum Service Temperature, Air	266 °C	510 °F	
Deflection Temperature at 0.46 MPa	260 °C	500 °F	

<small>(56 psi)</small> Thermal Properties	Metric	English	ASTM D648 Comments
Flammability, UL94	V-0	V-0	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+16 ohm-cm	1.00e+16 ohm-cm	ASTM D257
Dielectric Strength	19.7 kV/mm	500 kV/in	ASTM D149

Descriptive Properties	Value	Comments
FDA Compliance	no	

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China