

Quantum PEI - Ultem® 30% Glass Fiber Filled

Category : Polymer , Thermoplastic , Polyetherimide (PEI) , Polyetherimide (PEI), 30% Glass Fiber

Material Notes:

Information provided by Quantum Advanced Engineering Plastics

Order this product through the following link:

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

Physical Properties	Metric	English	Comments
Specific Gravity	1.51 g/cc	1.51 g/cc	ASTM D792
Water Absorption	0.16 %	0.16 %	ASTM D570
Water Absorption at Saturation	0.90 %	0.90 %	ASTM D570

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	114	114	ASTM D785
Hardness, Rockwell R	127	127	ASTM D785
Hardness, Shore D	86	86	ASTM 2240
Tensile Strength	169 MPa	24500 psi	ASTM D638
Elongation at Break	3.0 %	3.0 %	ASTM D638
Tensile Modulus	8.96 GPa	1300 ksi	ASTM D638
Flexural Strength	228 MPa	33000 psi	ASTM D790
Flexural Modulus	8.96 GPa	1300 ksi	ASTM D790
Compressive Strength	212 MPa	30700 psi	ASTM D695
Izod Impact, Notched	0.961 J/cm	1.80 ft-lb/in	ASTM D256
Coefficient of Friction	0.24	0.24	

Thermal Properties	Metric	English	Comments
CTE, linear	19.8 $\mu\text{m}/\text{m}\cdot\text{°C}$	11.0 $\mu\text{in}/\text{in}\cdot\text{°F}$	ASTM D696
Thermal Conductivity	0.259 W/m-K	1.80 BTU-in/hr-ft ² -°F	ASTM C177
Melting Point	228 °C	442 °F	ASTM D3417
Maximum Service Temperature, Air	171 °C	340 °F	
Deflection Temperature at 0.46 MPa	212 °C	414 °F	

Thermal Properties	Metric	English	ASTM D648 Comments
Deflection Temperature at 1.8 MPa (264 psi)	210 °C	410 °F	ASTM D648
Flammability, UL94	V-0	V-0	

Electrical Properties	Metric	English	Comments
Volume Resistivity	3.00e+16 ohm-cm	3.00e+16 ohm-cm	ASTM D257
Dielectric Constant	3.7	3.7	ASTM D150
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
Dielectric Strength	30.3 kV/mm	770 kV/in	ASTM D149
Dissipation Factor	0.0015	0.0015	ASTM D150
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	

Descriptive Properties	Value	Comments
FDA Compliance	no	

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