Quantum Polycarbonate 20% Glass Fiber Filled

Category : Polymer , Thermoplastic , Polycarbonate (PC) , Polycarbonate, 20% Glass Filled

Material Notes:

Information provided by Quantum Advanced Engineering Plastics

Order this product through the following link:
http://www.lookpolymers.com/polymer_Quantum-Polycarbonate-20-Glass-Fiber-Filled.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.35 g/cc	1.35 g/cc	ASTM D792
Water Absorption	0.16 %	0.16 %	ASTM D570
Water Absorption at Saturation	0.29 %	0.29 %	ASTM D570

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	91	91	ASTM D785
Hardness, Rockwell R	122	122	ASTM D785
Hardness, Shore D	80	80	ASTM 2240
Tensile Strength	110 MPa	16000 psi	ASTM D638
Elongation at Break	5.0 %	5.0 %	ASTM D638
Tensile Modulus	5.93 GPa	860 ksi	ASTM D638
Flexural Strength	131 MPa	19000 psi	ASTM D790
Flexural Modulus	5.52 GPa	800 ksi	ASTM D790
Compressive Strength	110 MPa	16000 psi	ASTM D695
Izod Impact, Notched	1.07 J/cm	2.00 ft-lb/in	ASTM D256
Coefficient of Friction	0.22	0.22	

Thermal Properties	Metric	English	Comments
CTE, linear	27.0 µm/m-°C	15.0 µin/in-°F	ASTM D696
Thermal Conductivity	0.212 W/m-K	1.47 BTU-in/hr-ft²-°F	ASTM C177
Melting Point	166 °C	330 °F	ASTM D3417
Maximum Service Temperature, Air	127 °C	260 °F	
Deflection Temperature at 0.46 MPa	149 °C	300 °F	

Thermal Properties	Metric	English	Comments
(66 psi)			ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	146 °C	295 °F	ASTM D648
Flammability, UL94	V-1	V-1	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+17 ohm-cm	1.00e+17 ohm-cm	ASTM D257
Dielectric Constant	3.13 @Frequency 1.00e+6 Hz	3.13 @Frequency 1.00e+6 Hz	ASTM D150
Dielectric Strength	19.3 kV/mm	490 kV/in	ASTM D149
Dissipation Factor	0.0090 @Frequency 1.00e+6 Hz	0.0090 @Frequency 1.00e+6 Hz	ASTM D150

Descriptive Properties	Value	Comments
FDA Compliance	no	

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