

Ensinger Tecanat™ GF20 20% Glass Reinforced Polycarbonate (PC)

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

Material Notes:

Tenacat™ GF20 is typically used in business equipment where gears, rollers, interlam mechanical parts, connectors and relays are required. The automotive industry uses polycarbonate materials for pumps, valves, light bezels and instrument panels. Excellent dimensional stability Transparency Good machinability Information provided by Ensinger, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Ensinger-Tecanat-GF20-20-Glass-Reinforced-Polycarbonate-PC.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.34 g/cc	1.34 g/cc	
Water Absorption	0.16 %	0.16 %	at 24 hours; ASTM D570
Water Absorption at Saturation	0.29 %	0.29 %	ASTM D570

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	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	5.50 GPa	798 ksi	ASTM D790
Izod Impact, Notched	0.801 J/cm	1.50 ft-lb/in	ASTM D256
Coefficient of Friction, Dynamic	0.22	0.22	40 psi, 50 fpm; ASTM D3702
K (wear) Factor	242 x 10 ⁻⁸ mm ³ /N-M	120 x 10 ⁻¹⁰ in ³ -min/ft-lb-hr	40 psi, 50 fpm; ASTM D3702

Thermal Properties	Metric	English	Comments
CTE, linear	27.0 μm/m-°C	15.0 μin/in-°F	ASTM D696
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Maximum Service Temperature, Air	130 °C	266 °F	Long Term; ASTM UL746B
	132 °C	270 °F	Intermittent
Deflection Temperature at 0.46 MPa (66 psi)	148 °C	298 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	146 °C	295 °F	ASTM D648

Thermal Properties	Metric	English	Comments
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Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+17 ohm-cm	1.00e+17 ohm-cm	ASTM D257
Dielectric Constant	3.13	3.13	ASTM D150
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Dielectric Strength	3.17	3.17	ASTM D150
	@Frequency 60 Hz	@Frequency 60 Hz	
Dissipation Factor	19.3 kV/mm	490 kV/in	ASTM D149
Dissipation Factor	0.00090	0.00090	ASTM D150
	@Frequency 60 Hz	@Frequency 60 Hz	

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