

Ovation Polymers RIGITRON 10020 GF Polycarbonate, 20% Glass Reinforced

Category : Polymer , Thermoplastic , Polycarbonate (PC)

Material Notes:

PC - Glass reinforced (20 %), high tensile strength, stiffness and HDT. *All properties are measured after 48 hours of conditioning at 23°C and 50% relative humidity. All samples are prepared according to ASTM standards. Variations within normal tolerances are possible for various types of colors and functional properties like UV resistance. Information provided by Ovation Polymers

Order this product through the following link:

http://www.lookpolymers.com/polymer_Ovation-Polymers-RIGITRON-10020-GF-Polycarbonate-20-Glass-Reinforced.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.32 g/cc	1.32 g/cc	ASTM D792
Melt Index of Compound	12 g/10 min @Load 1.20 kg, Temperature 300 °C	12 g/10 min @Load 2.65 lb, Temperature 572 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	92.9 MPa	13500 psi	50 mm/min; ASTM D638
Elongation at Break	3.5 %	3.5 %	50 mm/min; ASTM D638
Tensile Modulus	3.60 GPa	522 ksi	50 mm/min; ASTM D638
Flexural Yield Strength	132 MPa	19100 psi	1.3 mm/min; ASTM D790
Flexural Modulus	5.40 GPa	783 ksi	1.3 mm/min; ASTM D790
Izod Impact, Notched	0.667 J/cm	1.25 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	134 °C @Thickness 3.20 mm	273 °F @Thickness 0.126 in	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	129 °C @Thickness 3.20 mm	264 °F @Thickness 0.126 in	ASTM D648

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