

Ter Hell Plastic Terez® PC X 9005 GF 5 Polycarbonate, 5% Glass Fiber

Category : Polymer , Thermoplastic , Polycarbonate (PC) , Polycarbonate, 10% Glass Filled

Material Notes:

Description: Polycarbonate, medium flowability, 5% glass fiber reinforced. Application: For injection molded parts with increased demand of stiffness. Information provided by Ter Hell Plastic GMBH.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Ter-Hell-Plastic-Terez-PC-X-9005-GF-5-Polycarbonate-5-Glass-Fiber.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.24 g/cc	1.24 g/cc	ISO 1183
Water Absorption	0.32 %	0.32 %	ISO 62
Melt Flow	10 g/10 min @Load 1.20 kg, Temperature 300 °C	10 g/10 min @Load 2.65 lb, Temperature 572 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength	60.0 MPa	8700 psi	dry; ISO 527
Tensile Strength, Yield	65.0 MPa	9430 psi	dry; ISO 527
Elongation at Break	20 %	20 %	dry; ISO 527
Elongation at Yield	5.0 %	5.0 %	dry; ISO 527
Tensile Modulus	3.00 GPa	435 ksi	dry; ISO 527
Charpy Impact, Notched	1.00 J/cm ²	4.76 ft-lb/in ²	dry; ISO 179

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	130 °C	266 °F	ISO 75
Vicat Softening Point	135 °C	275 °F	B/50; ISO 306
Flammability, UL94	HB @Thickness 1.60 mm	HB @Thickness 0.0630 in	

Processing Properties	Metric	English	Comments
Processing Temperature	270 - 300 °C	518 - 572 °F	
Drying Temperature	120 °C	248 °F	
Dry Time	4 hour	4 hour	

Processing Properties

Metric

English

Comments

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