

Polyram RamTough RZ309G18 Polycarbonate, 18% Glass Fiber

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

Material Notes:

18% glass fiber reinforced polycarbonate for injection molding applications Information provided by Polyram Ram On Ind.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Polyram-RamTough-RZ309G18-Polycarbonate-18-Glass-Fiber.php

Physical Properties	Metric	English	Comments
Density	1.31 g/cc	0.0473 lb/in ³	DIN 53479
Water Absorption	0.29 %	0.29 %	DIN 53495
Linear Mold Shrinkage	0.0020 cm/cm	0.0020 in/in	
Melt Flow	12 g/10 min @Load 1.20 kg, Temperature 300 °C	12 g/10 min @Load 2.65 lb, Temperature 572 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	80.0 MPa	11600 psi	ASTM-D638
Elongation at Break	4.0 %	4.0 %	ASTM-D638
Tensile Modulus	2.10 GPa	305 ksi	ASTM-D790
Flexural Strength	36.0 MPa	5220 psi	ASTM D790
Flexural Modulus	2.00 GPa	290 ksi	ASTM-D790
Izod Impact, Notched	0.950 J/cm @Temperature 23.0 °C	1.78 ft-lb/in @Temperature 73.4 °F	ASTM-D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	140 °C	284 °F	DIN 53461
Deflection Temperature at 1.8 MPa (264 psi)	135 °C	275 °F	DIN 53461
Flammability, UL94	V-1 @Thickness 3.00 mm	V-1 @Thickness 0.118 in	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+16 ohm-cm	1.00e+16 ohm-cm	DIN 53482

Surface Resistance Electrical Properties	1.00e+14 ohm Metric	1.00e+14 ohm English	DIN 53482 Comments
Dielectric Constant	3.2 @Frequency 1e+6 Hz	3.2 @Frequency 1e+6 Hz	VDE 0303/4
Dielectric Strength	30.0 kV/mm	762 kV/in	VDE 0303/4

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