

Polyram RamTough RZ300G4 Polycarbonate, 20% Glass Fiber

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

Material Notes:

20% 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-RZ300G4-Polycarbonate-20-Glass-Fiber.php

Physical Properties	Metric	English	Comments
Density	1.35 g/cc	0.0488 lb/in ³	DIN 53479
Water Absorption	0.12 %	0.12 %	DIN 53495
Moisture Absorption at Equilibrium	0.29 %	0.29 %	50%RH; DIN 53714
Linear Mold Shrinkage	0.0020 cm/cm	0.0020 in/in	
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, Yield	100 MPa	14500 psi	ASTM-D638
Elongation at Break	4.0 %	4.0 %	ASTM-D638
Flexural Strength	160 MPa	23200 psi	ASTM D790
Flexural Modulus	4.80 GPa	696 ksi	ASTM-D790
Izod Impact, Notched	1.70 J/cm @Temperature 23.0 °C	3.18 ft-lb/in @Temperature 73.4 °F	ASTM-D256

Thermal Properties	Metric	English	Comments
Thermal Conductivity	0.220 W/m-K	1.53 BTU-in/hr-ft ² -°F	DIN 52612
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-2 @Thickness 3.00 mm	V-2 @Thickness 0.118 in	

Electrical Properties	Metric	English	Comments
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Volume Resistivity Electrical Properties	1.00e+16 ohm-cm Metric	1.00e+16 ohm-cm English	DIN 53482 Comments
Surface Resistance	1.00e+14 ohm	1.00e+14 ohm	DIN 53482
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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