

Polyram RamTough RZ310G6 Polycarbonate, 30% Glass Fiber

Category : Polymer , Thermoplastic , Polycarbonate (PC) , Polycarbonate, 30% Glass Filled

Material Notes:

30% 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-RZ310G6-Polycarbonate-30-Glass-Fiber.php

Physical Properties	Metric	English	Comments
Density	1.42 g/cc	0.0513 lb/in ³	DIN 53479
Water Absorption	0.070 %	0.070 %	DIN 53495
Linear Mold Shrinkage	0.0020 - 0.0030 cm/cm	0.0020 - 0.0030 in/in	
Melt Flow	3.5 g/10 min @Load 1.20 kg, Temperature 300 °C	3.5 g/10 min @Load 2.65 lb, Temperature 572 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	110 MPa	16000 psi	ASTM-D638
Elongation at Break	2.0 %	2.0 %	ASTM-D638
Flexural Strength	195 MPa	28300 psi	ASTM D790
Flexural Modulus	7.00 GPa	1020 ksi	ASTM-D790
Izod Impact, Notched	1.30 J/cm @Temperature 23.0 °C	2.44 ft-lb/in @Temperature 73.4 °F	ASTM-D256

Thermal Properties	Metric	English	Comments
Thermal Conductivity	0.240 W/m-K	1.67 BTU-in/hr-ft ² -°F	DIN 52612
Deflection Temperature at 0.46 MPa (66 psi)	147 °C	297 °F	DIN 53461
Deflection Temperature at 1.8 MPa (264 psi)	139 °C	282 °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	3.3 @Frequency 1e+6 Hz	3.3 @Frequency 1e+6 Hz	VDE 0303/4
Dielectric Strength	30.0 kV/mm	762 kV/in	VDE 0303/4

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