

Polyram RamOfin PPH308G50 Polypropylene, 50% Glass Fiber, Impact Modified

Category : Polymer , Thermoplastic , Polypropylene (PP) , Polypropylene, Glass Reinforced, Impact Modified

Material Notes:

50% Glass fiber reinforced, heat stabilized, impact modified polypropylene for injection molding applications. Information provided by Polyram.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Polyram-RamOfin-PPH308G50-Polypropylene-50-Glass-Fiber-Impact-Modified.php

Physical Properties	Metric	English	Comments
Density	1.33 g/cc	0.0480 lb/in ³	ISO 1183
Linear Mold Shrinkage	0.0010 - 0.0030 cm/cm	0.0010 - 0.0030 in/in	ISO 2577
Melt Flow	3.0 g/10 min @Load 2.16 kg, Temperature 230 °C	3.0 g/10 min @Load 4.76 lb, Temperature 446 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	115	115	
Tensile Strength, Yield	95.0 MPa	13800 psi	ISO 527
Elongation at Break	4.0 %	4.0 %	ISO 527
Flexural Strength	140 MPa	20300 psi	ISO 178
Flexural Modulus	7.40 GPa	1070 ksi	ISO 178
Izod Impact, Notched (ISO)	16.0 kJ/m ²	7.61 ft-lb/in ²	ISO 180

Thermal Properties	Metric	English	Comments
Melting Point	165 °C	329 °F	ISO 11357
Maximum Service Temperature, Air	110 °C	230 °F	Continuous use
	140 °C	284 °F	Short peaks operation
Deflection Temperature at 0.46 MPa (66 psi)	150 °C	302 °F	ISO 75
Deflection Temperature at 1.8 MPa (264 psi)	140 °C	284 °F	ISO 75
Flammability, UL94	HB @Thickness 3.00 mm	HB @Thickness 0.118 in	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+15 ohm-cm	1.00e+15 ohm-cm	IEC 60093
Surface Resistance	1.00e+12 ohm	1.00e+12 ohm	IEC 60093
Dielectric Constant	3.8	3.8	IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
Dielectric Strength	80.0 kV/mm	2030 kV/in	IEC 60250

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