

Polyram RamTal PM3007G5 Polyacetal for Injection Molding, 25% Glass Fiber Reinforced

Category : Polymer , Thermoplastic , Acetal (POM) , Acetal Copolymer, 30% Glass Fiber Reinforced

Material Notes:

25% Glass fiber reinforced polyacetal for injection molding applications. Information provided by Polyram.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Polyram-RamTal-PM3007G5-Polyacetal-for-Injection-Molding-25-Glass-Fiber-Reinforced.php

Physical Properties	Metric	English	Comments
Density	1.58 g/cc	0.0571 lb/in ³	ISO 1183
Moisture Absorption at Equilibrium	0.30 %	0.30 %	50% RH; ISO 62
Water Absorption at Saturation	0.20 %	0.20 %	ISO 62
Linear Mold Shrinkage	0.0040 - 0.010 cm/cm	0.0040 - 0.010 in/in	ISO 2577
Melt Flow	8.5 g/10 min @Load 2.16 kg, Temperature 190 °C	8.5 g/10 min @Load 4.76 lb, Temperature 374 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	99	99	
Tensile Strength, Yield	110 MPa	16000 psi	ISO 527
Elongation at Break	2.5 %	2.5 %	ISO 527
Flexural Strength	200 MPa	29000 psi	ISO 178
Flexural Modulus	7.00 GPa	1020 ksi	ISO 178
Izod Impact, Notched (ISO)	8.00 kJ/m ²	3.81 ft-lb/in ²	ISO 180

Thermal Properties	Metric	English	Comments
Melting Point	166 °C	331 °F	ISO 11357
Deflection Temperature at 0.46 MPa (66 psi)	165 °C	329 °F	ISO 75
Deflection Temperature at 1.8 MPa (264 psi)	160 °C	320 °F	ISO 75
Flammability, UL94	HB @Thickness 3.00 mm	HB @Thickness 0.118 in	
Flame Spread	40 mm/min	1.6 in/min	FMVSS302

Thermal Properties	Metric	English	Comments
Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+14 ohm-cm	1.00e+14 ohm-cm	IEC 60093
Surface Resistance	1.00e+12 ohm	1.00e+12 ohm	IEC 60093
Dielectric Strength	20.0 kV/mm	508 kV/in	IEC 60250

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