

Polyram RamTal PM1113 Polyacetal Copolymer for Injection Molding

Category : Polymer , Thermoplastic , Acetal (POM) , Acetal Copolymer, Unreinforced

Material Notes:

General purpose polyacetal copolymer for injection molding applications, MFI 13. Information provided by Polyram.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Polyram-RamTal-PM1113-Polyacetal-Copolymer-for-Injection-Molding.php

Physical Properties	Metric	English	Comments
Density	1.41 g/cc	0.0509 lb/in ³	ISO 1183
Water Absorption at Saturation	0.22 %	0.22 %	ISO 62
Linear Mold Shrinkage	0.018 - 0.022 cm/cm	0.018 - 0.022 in/in	ISO 2577
Melt Flow	13 g/10 min @Load 2.16 kg, Temperature 190 °C	13 g/10 min @Load 4.76 lb, Temperature 374 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	82	82	
Tensile Strength, Yield	65.0 MPa	9430 psi	ISO 527
Elongation at Break	25 %	25 %	ISO 527
Flexural Strength	85.0 MPa	12300 psi	ISO 178
Flexural Modulus	2.80 GPa	406 ksi	ISO 178
Izod Impact, Notched (ISO)	6.00 kJ/m ²	2.86 ft-lb/in ²	ISO 180

Thermal Properties	Metric	English	Comments
Melting Point	165 °C	329 °F	ISO 11357
Deflection Temperature at 0.46 MPa (66 psi)	160 °C	320 °F	ISO 75
Deflection Temperature at 1.8 MPa (264 psi)	110 °C	230 °F	ISO 75
Flammability, UL94	HB @Thickness 3.00 mm	HB @Thickness 0.118 in	
Flame Spread	18 mm/min	0.71 in/min	FMVSS302

Electrical Properties	Metric	English	Comments
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Electrical Properties	Metric	English	Comments
Surface Resistance	1.00e+14 ohm	1.00e+14 ohm	IEC 60093
Dielectric Constant	3.8	3.8	IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
Dielectric Strength	24.0 kV/mm	610 kV/in	IEC 60250

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