

Polyram RamLloy A001 Nylon 66/Polyethylene Alloy for Injection Molding, Impact Modified

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Polyethylene (PE)

Material Notes:

Nylon 66/PE Alloy, reduction of water absorption, impact modified, for injection molding applications. Information provided by Polyram.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Polyram-RamLloy-A001-Nylon-66Polyethylene-Alloy-for-Injection-Molding-Impact-Modified.php

Physical Properties	Metric	English	Comments
Density	1.10 g/cc	0.0397 lb/in ³	ISO 1183
Water Absorption at Saturation	8.0 %	8.0 %	ISO 62
Linear Mold Shrinkage	0.012 cm/cm	0.012 in/in	ISO 2577
Melt Flow	15 g/10 min @Load 5.00 kg, Temperature 275 °C	15 g/10 min @Load 11.0 lb, Temperature 527 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	60.0 MPa	8700 psi	ISO 527
Elongation at Break	50 %	50 %	ISO 527
Tensile Modulus	1.65 GPa	239 ksi	ISO 527
Flexural Strength	80.0 MPa	11600 psi	ISO 178
Flexural Modulus	1.79 GPa	260 ksi	ISO 178
Izod Impact, Notched (ISO)	35.0 kJ/m ²	16.7 ft-lb/in ²	ISO 180

Thermal Properties	Metric	English	Comments
Melting Point	256 °C	493 °F	ISO 11357
Deflection Temperature at 0.46 MPa (66 psi)	120 °C	248 °F	ISO 75
Deflection Temperature at 1.8 MPa (264 psi)	70.0 °C	158 °F	ISO 75
Flammability, UL94	HB @Thickness 3.00 mm	HB @Thickness 0.118 in	

Electrical Properties	Metric	English	Comments
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Electrical Properties Dielectric Constant	3.3 Metric	3.3 English	Comments IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
Dielectric Strength	30.0 kV/mm	762 kV/in	IEC 60250

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