

Polyram PlusTek RA314G50 Nylon 66 for Injection Molding, 50% Glass Fiber Reinforced, Heat Stabilized

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, 30% Glass Fiber Filled

Material Notes:

50% Glass fiber reinforced, heat stabilized Nylon 66 for injection molding applications. Information provided by Polyram.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Polyram-PlusTek-RA314G50-Nylon-66-for-Injection-Molding-50-Glass-Fiber-Reinforced-Heat-Stabilized.php

Physical Properties	Metric	English	Comments
Density	1.45 g/cc	0.0524 lb/in ³	ISO 1183
Moisture Absorption at Equilibrium	1.6 %	1.6 %	50% RH; ISO 62
Water Absorption at Saturation	4.0 %	4.0 %	ISO 62
Linear Mold Shrinkage	0.0010 - 0.0020 cm/cm	0.0010 - 0.0020 in/in	ISO 2577

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	122	122	
Tensile Strength, Yield	210 MPa	30500 psi	ISO 527
Elongation at Break	3.0 %	3.0 %	ISO 527
Flexural Strength	290 MPa	42100 psi	ISO 178
Flexural Modulus	9.80 GPa	1420 ksi	ISO 178
Izod Impact, Notched (ISO)	13.5 kJ/m ²	6.42 ft-lb/in ²	ISO 180

Thermal Properties	Metric	English	Comments
Melting Point	256 °C	493 °F	ISO 11357
Maximum Service Temperature, Air	120 °C	248 °F	Continuous use
	230 °C	446 °F	Short peaks operation
Deflection Temperature at 0.46 MPa (66 psi)	250 °C	482 °F	ISO 75
Deflection Temperature at 1.8 MPa (264 psi)	250 °C	482 °F	ISO 75
Flammability, UL94	HB	HB	
	@Thickness 3.00 mm	@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	3.5	3.5	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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