

Polyram PlusTek RA300G7 Nylon 6.6 for Injection Molding, 35% Glass Fiber Reinforced, Heat Stabilized

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66 , 40% Glass Fiber Filled

Material Notes:

Heat stabilized, 35% glass fiber reinforced Nylon 6.6 for injection molding applications. Information provided by Polyram.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Polyram-PlusTek-RA300G7-Nylon-66-for-Injection-Molding-35-Glass-Fiber-Reinforced-Heat-Stabilized.php

Physical Properties	Metric	English	Comments
Density	1.20 g/cc	0.0434 lb/in ³	ISO 1183
Moisture Absorption at Equilibrium	1.6 %	1.6 %	50% RH; ISO 62
Water Absorption at Saturation	5.0 %	5.0 %	ISO 62
Linear Mold Shrinkage	0.0035 cm/cm	0.0035 in/in	ISO 2577

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	122	122	
Tensile Strength, Yield	140 MPa	20300 psi	ISO 527
Elongation at Break	2.5 %	2.5 %	ISO 527
Tensile Modulus	7.00 GPa	1020 ksi	ISO 527
Flexural Strength	250 MPa	36300 psi	ISO 178
Flexural Modulus	8.50 GPa	1230 ksi	ISO 178
Izod Impact, Notched (ISO)	8.50 kJ/m ²	4.04 ft-lb/in ²	ISO 180
Charpy Impact Unnotched	4.00 J/cm ²	19.0 ft-lb/in ²	ISO 179
Charpy Impact, Notched	0.650 J/cm ²	3.09 ft-lb/in ²	ISO 179

Thermal Properties	Metric	English	Comments
Melting Point	260 °C	500 °F	ISO 11357
Maximum Service Temperature, Air	120 °C	248 °F	Continuous use
	240 °C	464 °F	Short peaks operation
Deflection Temperature at 0.46 MPa (66 psi)	265 °C	509 °F	ISO 75

Deflection Temperature at 1.8 MPa (104 psi) Thermal Properties	255 °C Metric	491 °F English	ISO 75 Comments
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	3.5 @Frequency 1.00e+6 Hz	3.5 @Frequency 1.00e+6 Hz	IEC 60250
Dielectric Strength	90.0 kV/mm	2290 kV/in	IEC 60250

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