

Polyram PlusTek RA115 Nylon 66 for Injection Molding

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, Unreinforced

Material Notes:

Nylon 66 for injection molding applications. Information provided by Polyram.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Polyram-PlusTek-RA115-Nylon-66-for-Injection-Molding.php

Physical Properties	Metric	English	Comments
Density	1.14 g/cc	0.0412 lb/in ³	ISO 1183
Moisture Absorption at Equilibrium	2.8 %	2.8 %	50% RH; ISO 62
Water Absorption at Saturation	8.5 %	8.5 %	ISO 62
Linear Mold Shrinkage	0.014 - 0.018 cm/cm	0.014 - 0.018 in/in	ISO 2577

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	118	118	
Tensile Strength, Yield	85.0 MPa	12300 psi	ISO 527
Elongation at Break	25 %	25 %	ISO 527
Tensile Modulus	3.00 GPa	435 ksi	ISO 527
Flexural Strength	135 MPa	19600 psi	ISO 178
Flexural Modulus	2.90 GPa	421 ksi	ISO 178
Izod Impact, Notched (ISO)	4.50 kJ/m ²	2.14 ft-lb/in ²	ISO 180

Thermal Properties	Metric	English	Comments
Melting Point	256 °C	493 °F	ISO 11357
Maximum Service Temperature, Air	70.0 °C	158 °F	Continuous use
	100 °C	212 °F	Short peaks operation
Deflection Temperature at 0.46 MPa (66 psi)	210 °C	410 °F	ISO 75
Deflection Temperature at 1.8 MPa (264 psi)	100 °C	212 °F	ISO 75
Glow Wire Test	750 °C	1380 °F	GWFI; IEC 60695

Electrical Properties	Metric	English	Comments
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Electrical Properties	Metric <small>15 ohm-cm</small>	English <small>15 ohm-cm</small>	Comments
Surface Resistance	1.00e+13 ohm	1.00e+13 ohm	IEC 60093
Dielectric Constant	3.6 @Frequency 1.00e+6 Hz	3.6 @Frequency 1.00e+6 Hz	IEC 60250
Dielectric Strength	120 kV/mm	3050 kV/in	IEC 60250

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