

Polyram PlusTek RA116 Nylon 6.6, Injection Molding

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

Material Notes:

polyamide 6.6 for injection molding applications Information provided by Polyram Ram On Ind.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Polyram-PlusTek-RA116-Nylon-66-Injection-Molding.php

Physical Properties	Metric	English	Comments
Density	1.14 g/cc	0.0412 lb/in ³	DIN 53479
Water Absorption	8.5 %	8.5 %	DIN 53495
Moisture Absorption at Equilibrium	2.8 %	2.8 %	50%RH; DIN 53714
Linear Mold Shrinkage	0.014 - 0.018 cm/cm	0.014 - 0.018 in/in	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	118	118	ASTM-D785
Tensile Strength, Yield	85.0 MPa	12300 psi	ASTM-D638
Elongation at Break	25 %	25 %	ASTM-D638
Tensile Modulus	3.00 GPa	435 ksi	ASTM-D790
Flexural Strength	135 MPa	19600 psi	ASTM D790
Flexural Modulus	2.90 GPa	421 ksi	ASTM-D790
Izod Impact, Notched	0.450 J/cm @Temperature 23.0 °C	0.843 ft-lb/in @Temperature 73.4 °F	ASTM-D256

Thermal Properties	Metric	English	Comments
Melting Point	256 °C	493 °F	
Maximum Service Temperature, Air	70.0 °C	158 °F	Continuous Use
	180 °C	356 °F	Short peaks operation
Deflection Temperature at 0.46 MPa (66 psi)	210 °C	410 °F	DIN 53461
Deflection Temperature at 1.8 MPa (264 psi)	100 °C	212 °F	DIN 53461
Glow Wire Test	750 °C	1380 °F	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+15 ohm-cm	1.00e+15 ohm-cm	DIN 53482
Surface Resistance	1.00e+13 ohm	1.00e+13 ohm	DIN 53482
Dielectric Constant	3.6 @Frequency 1e+6 Hz	3.6 @Frequency 1e+6 Hz	VDE 0303/4
Dielectric Strength	120 kV/mm	3050 kV/in	VDE 0303/4

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