

Polyram PlusTek RA102 Nylon 6.6, General Purpose

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

Material Notes:

General purpose 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-RA102-Nylon-66-General-Purpose.php

Physical Properties	Metric	English	Comments
Density	1.14 g/cc	0.0412 lb/in ³	DIN 53479
Water Absorption	1.0 %	1.0 %	DIN 53495
Linear Mold Shrinkage	0.015 - 0.018 cm/cm	0.015 - 0.018 in/in	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	>= 115	>= 115	ASTM-D785
Tensile Strength, Yield	>= 75.0 MPa	>= 10900 psi	ASTM-D638
Elongation at Break	>= 15 %	>= 15 %	ASTM-D638
Flexural Strength	>= 100 MPa	>= 14500 psi	ASTM D790
Flexural Modulus	>= 2.40 GPa	>= 348 ksi	ASTM-D790
Izod Impact, Notched	>= 0.550 J/cm @Temperature 23.0 °C	>= 1.03 ft-lb/in @Temperature 73.4 °F	ASTM-D256

Thermal Properties	Metric	English	Comments
Melting Point	256 °C	493 °F	
Maximum Service Temperature, Air	80.0 °C	176 °F	Continuous Use
	200 °C	392 °F	Short peaks operation
Deflection Temperature at 0.46 MPa (66 psi)	>= 190 °C	>= 374 °F	DIN 53461
Deflection Temperature at 1.8 MPa (264 psi)	>= 80.0 °C	>= 176 °F	DIN 53461
Flammability, UL94	HB @Thickness 3.00 mm	HB @Thickness 0.118 in	

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

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