

Polyram PlusTek RA702 Nylon 66 for Injection Molding, UV Stabilized

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

Material Notes:

UV 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-RA702-Nylon-66-for-Injection-Molding-UV-Stabilized.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	0.011 - 0.018 cm/cm	0.011 - 0.018 in/in	ISO 2577

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	80.0 MPa	11600 psi	ISO 527
Elongation at Break	35 %	35 %	ISO 527
Flexural Strength	110 MPa	16000 psi	ISO 178
Flexural Modulus	2.50 GPa	363 ksi	ISO 178
Izod Impact, Notched (ISO)	4.40 kJ/m ²	2.09 ft-lb/in ²	ISO 180

Thermal Properties	Metric	English	Comments
Melting Point	256 °C	493 °F	ISO 11357
Maximum Service Temperature, Air	110 °C	230 °F	Continuous use
	180 °C	356 °F	Short peaks operation
Deflection Temperature at 0.46 MPa (66 psi)	235 °C	455 °F	ISO 75
Deflection Temperature at 1.8 MPa (264 psi)	90.0 °C	194 °F	ISO 75
Flammability, UL94	V-2 @Thickness 3.00 mm	V-2 @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 Electrical Properties	1.00e+13 ohm Metric	1.00e+13 ohm English	IEC 60093 Comments
Dielectric Constant	3.3 @Frequency 1.00e+6 Hz	3.3 @Frequency 1.00e+6 Hz	IEC 60250
Dielectric Strength	120 kV/mm	3050 kV/in	IEC 60250

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