

Polyram PlusTek PA700BL10 Nylon 6.6 for Injection Molding, UV Stabilized

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

Material Notes:

UV Stabilized 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-PA700BL10-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	0.014 - 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	40 %	40 %	ISO 527
Flexural Strength	115 MPa	16700 psi	ISO 178
Flexural Modulus	2.60 GPa	377 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	V-2	
	@Thickness 3.00 mm	@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	IEC 60093 Comments
Surface Resistance	1.00e+13 ohm	1.00e+13 ohm	IEC 60093
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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