

Polyram PlusTek PA7001G7BK11 Nylon 66, 35% Glass Fiber Reinforced, Heat and UV Stabilized, Hydrolysis Resistant

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66 , 40% Glass Fiber Filled

Material Notes:

35% Glass fiber reinforced, heat stabilized, UV stabilized, hydrolysis resistant Nylon 66. Approved by W.R.A.S.Information provided by Polyram.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Polyram-PlusTek-PA7001G7BK11-Nylon-66-35-Glass-Fiber-Reinforced-Heat-and-UV-Stabilized-Hydrolysis-Resistant.php

Physical Properties	Metric	English	Comments
Density	1.40 g/cc	0.0506 lb/in ³	ISO 1183
Moisture Absorption at Equilibrium	1.6 %	1.6 %	50% RH; ISO 62
Water Absorption at Saturation	5.0 %	5.0 %	ISO 62
Linear Mold Shrinkage	0.0030 - 0.0050 cm/cm	0.0030 - 0.0050 in/in	ISO 2577

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	200 MPa	29000 psi	ISO 527
Elongation at Break	3.0 %	3.0 %	ISO 527
Tensile Modulus	11.115 GPa	1612.1 ksi	ISO 527
Flexural Strength	260 MPa	37700 psi	ISO 178
Flexural Modulus	10.6 GPa	1540 ksi	ISO 178
Izod Impact, Notched (ISO)	13.0 kJ/m ²	6.19 ft-lb/in ²	ISO 180

Thermal Properties	Metric	English	Comments
Melting Point	260 °C	500 °F	ISO 11357
Deflection Temperature at 0.46 MPa (66 psi)	259 °C	498 °F	ISO 75
Deflection Temperature at 1.8 MPa (264 psi)	249 °C	480 °F	ISO 75
Flammability, UL94	HB	HB	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+13 ohm-cm	1.00e+13 ohm-cm	IEC 60093

Surface Resistance Electrical Properties	1.00e+12 ohm Metric	1.00e+12 ohm English	IEC 60093 Comments
Dielectric Constant	3.5 @Frequency 1.00e+6 Hz	3.5 @Frequency 1.00e+6 Hz	IEC 60250

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