

Polyram PlusTek PA320G3 Nylon 6.6 for Injection Molding, 15% Glass Fiber Reinforced, Flame Retardant

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, Glass Fiber Filled, Flame Retardant

Material Notes:

15% Glass fiber reinforced flame retardant 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-PA320G3-Nylon-66-for-Injection-Molding-15-Glass-Fiber-Reinforced-Flame-Retardant.php

Physical Properties	Metric	English	Comments
Density	1.23 g/cc	0.0444 lb/in ³	ISO 1183
Moisture Absorption at Equilibrium	2.2 %	2.2 %	50% RH; ISO 62
Water Absorption at Saturation	7.0 %	7.0 %	ISO 62
Linear Mold Shrinkage	0.0035 - 0.0045 cm/cm	0.0035 - 0.0045 in/in	ISO 2577

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	121	121	
Tensile Strength, Yield	120 MPa	17400 psi	ISO 527
Elongation at Break	3.0 %	3.0 %	ISO 527
Flexural Strength	180 MPa	26100 psi	ISO 178
Flexural Modulus	5.00 GPa	725 ksi	ISO 178
Izod Impact, Notched (ISO)	5.00 kJ/m ²	2.38 ft-lb/in ²	ISO 180

Thermal Properties	Metric	English	Comments
Melting Point	256 °C	493 °F	ISO 11357
Maximum Service Temperature, Air	100 °C	212 °F	Continuous use
	200 °C	392 °F	Short peaks operation
Deflection Temperature at 0.46 MPa (66 psi)	250 °C	482 °F	ISO 75
Deflection Temperature at 1.8 MPa (264 psi)	230 °C	446 °F	ISO 75
Flammability, UL94	V-0	V-0	
	@Thickness 3.00 mm	@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	1.00e+12 ohm	1.00e+12 ohm	IEC 60093
Dielectric Constant	3.8	3.8	IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
Dielectric Strength	70.0 kV/mm	1780 kV/in	IEC 60250

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