Polyram PlusTek PB202G50BK39 Nylon 6, 50% Glass Fiber Reinforced, UV and Heat Stabilized

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6, 50% Glass Fiber Filled

Material Notes:

50% Glass fiber reinforced, UV and heat stabilized Nylon 6. Approved and listed by NSF/ANSI 61 International.Information provided by Polyram.

Order this product through the following link:
http://www.lookpolymers.com/polymer_Polyram-PlusTek-PB202G50BK39-Nylon-6-50-Glass-Fiber-Reinforced-UV-and-Heat-Stabilized.php

Physical Properties	Metric	English	Comments
Density	1.55 g/cc	0.0560 lb/in³	ISO 1183
Moisture Absorption at Equilibrium	1.5 %	1.5 %	50% RH; ISO 62
Water Absorption at Saturation	4.8 %	4.8 %	ISO 62
Linear Mold Shrinkage	0.0010 - 0.0040 cm/cm	0.0010 - 0.0040 in/in	ISO 2577

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	210 MPa	30500 psi	ISO 527
Elongation at Break	3.5 %	3.5 %	ISO 527
Tensile Modulus	0.0130 GPa	1.89 ksi	ISO 527
Flexural Strength	305 MPa	44200 psi	ISO 178
Flexural Modulus	13.745 GPa	1993.5 ksi	ISO 178
Izod Impact, Notched (ISO)	19.0 kJ/m²	9.04 ft-lb/in²	ISO 180

Thermal Properties	Metric	English	Comments
Melting Point	218 °C	424 °F	ISO 11357
Maximum Service Temperature, Air	110 °C	230 °F	Continuous use
	200 °C	392 °F	Short peaks operation
Deflection Temperature at 0.46 MPa (66 psi)	220 °C	428 °F	ISO 75
Deflection Temperature at 1.8 MPa (264 psi)	210 °C	410 °F	ISO 75
Flammability, UL94	HB @Thickness 3.00 mm	HB @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 @Frequency 1.00e+6 Hz	3.8 @Frequency 1.00e+6 Hz	IEC 60250
Dielectric Strength	80.0 kV/mm	2030 kV/in	IEC 60250

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