

Polyram PlusTek PA4501G6 Nylon 66, 30% Glass Fiber Reinforced, Low Friction

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, 30% Glass Fiber Filled

Material Notes:

30% Glass fiber reinforced Nylon 66 for low friction applications. Information provided by Polyram.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Polyram-PlusTek-PA4501G6-Nylon-66-30-Glass-Fiber-Reinforced-Low-Friction.php

Physical Properties	Metric	English	Comments
Density	1.37 g/cc	0.0495 lb/in ³	ISO 1183
Moisture Absorption at Equilibrium	1.7 %	1.7 %	50% RH; ISO 62
Linear Mold Shrinkage	0.0030 - 0.0040 cm/cm	0.0030 - 0.0040 in/in	ISO 2577

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	122	122	
Tensile Strength, Yield	190 MPa	27600 psi	ISO 527
Elongation at Break	3.0 %	3.0 %	ISO 527
Flexural Strength	280 MPa	40600 psi	ISO 178
Flexural Modulus	8.80 GPa	1280 ksi	ISO 178
Izod Impact, Notched (ISO)	11.5 kJ/m ²	5.47 ft-lb/in ²	ISO 180

Thermal Properties	Metric	English	Comments
Melting Point	256 °C	493 °F	ISO 11357
Maximum Service Temperature, Air	120 °C	248 °F	Continuous use
	240 °C	464 °F	Short peaks operation
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 @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 Electrical Properties	1.00e+12 ohm Metric	1.00e+12 ohm English	IEC 60093 Comments
Dielectric Constant	3.5	3.5	IEC 60250
Dielectric Strength	90.0 kV/mm	2290 kV/in	IEC 60250

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