

Polyram PlusTek PA303G6BK16 Nylon 6.6, 30% Glass Fiber reinforced, Heat Stabilized, Hydrolysis Resistant

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

Material Notes:

30% Glass fiber reinforced, heat stabilized, hydrolysis resistant, improved surface finish Nylon 6.6. Approved and listed by W.R.A.S. Information provided by Polyram.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Polyram-PlusTek-PA303G6BK16-Nylon-66-30-Glass-Fiber-reinforced-Heat-Stabilized-Hydrolysis-Resistant.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
Water Absorption at Saturation	5.6 %	5.6 %	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	175 MPa	25400 psi	ISO 527
Elongation at Break	3.0 %	3.0 %	ISO 527
Flexural Strength	290 MPa	42100 psi	ISO 178
Flexural Modulus	8.00 GPa	1160 ksi	ISO 178
Izod Impact, Notched (ISO)	12.0 kJ/m ²	5.71 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
	140 °C	284 °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	

Thermal Properties	Metric	English	Comments
Glass Transition Temperature	150 °C	150 °F	GWFI, IEC 60695

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+15 ohm-cm	1.00e+15 ohm-cm	IEC 60093
Surface Resistance	1.00e+13 ohm	1.00e+13 ohm	IEC 60093
Dielectric Constant	3.7	3.7	IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
Dielectric Strength	90.0 kV/mm	2290 kV/in	IEC 60250
Comparative Tracking Index	400 V	400 V	IEC 60112

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