

Polyram PlusTek PA303G50 Nylon 6.6, 50% Glass Fiber

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, 50% Glass Fiber Filled

Material Notes:

50% glass fiber reinforced, heat stabilized polyamide 6.6 for injection molding applications Information provided by Polyram Ram On Ind.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Polyram-PlusTek-PA303G50-Nylon-66-50-Glass-Fiber.php

Physical Properties	Metric	English	Comments
Density	1.55 g/cc	0.0560 lb/in ³	DIN 53479
Water Absorption	4.0 %	4.0 %	DIN 53495
Moisture Absorption at Equilibrium	1.2 %	1.2 %	50%RH; DIN 53714
Linear Mold Shrinkage	0.0010 - 0.0025 cm/cm	0.0010 - 0.0025 in/in	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	122	122	ASTM-D785
Tensile Strength, Yield	230 MPa	33400 psi	ASTM-D638
Elongation at Break	2.0 %	2.0 %	ASTM-D638
Flexural Strength	330 MPa	47900 psi	ASTM D790
Flexural Modulus	15.0 GPa	2180 ksi	ASTM-D790
Izod Impact, Notched	1.30 J/cm @Temperature 23.0 °C	2.44 ft-lb/in @Temperature 73.4 °F	ASTM-D256

Thermal Properties	Metric	English	Comments
Melting Point	256 °C	493 °F	
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)	250 °C	482 °F	DIN 53461
Deflection Temperature at 1.8 MPa (264 psi)	250 °C	482 °F	DIN 53461
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	DIN 53482
Surface Resistance	1.00e+12 ohm	1.00e+12 ohm	DIN 53482
Dielectric Constant	3.8	3.8	VDE 0303/4
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Dielectric Strength	90.0 kV/mm	2290 kV/in	VDE 0303/4

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