

Polyram PlusTek PB300G5 Nylon 6, 15% Glass Fiber

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6, 20% Glass Fiber Filled

Material Notes:

15% glass-fiber reinforced, heat stabilized polyamide 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-PB300G5-Nylon-6-15-Glass-Fiber.php

Physical Properties	Metric	English	Comments
Density	1.31 g/cc	0.0473 lb/in ³	DIN 53479
Water Absorption	7.1 %	7.1 %	DIN 53495
Moisture Absorption at Equilibrium	2.3 %	2.3 %	50%RH; DIN 53714
Linear Mold Shrinkage	0.0035 cm/cm	0.0035 in/in	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	122	122	ASTM-D785
Tensile Strength, Yield	160 MPa	23200 psi	ASTM-D638
Elongation at Break	3.5 %	3.5 %	ASTM-D638
Flexural Strength	220 MPa	31900 psi	ASTM D790
Flexural Modulus	8.00 GPa	1160 ksi	ASTM-D790
Izod Impact, Notched	0.800 J/cm @Temperature 23.0 °C	1.50 ft-lb/in @Temperature 73.4 °F	ASTM-D256

Thermal Properties	Metric	English	Comments
Melting Point	218 °C	424 °F	
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	DIN 53461
Deflection Temperature at 1.8 MPa (264 psi)	210 °C	410 °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	80.0 kV/mm	2030 kV/in	VDE 0303/4

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