

Polyram PlusTek PB305G33 Nylon 6, 33% Glass Fiber

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6 , 30% Glass Fiber Filled

Material Notes:

33% glass fiber reinforced, heat stabilized and UV stabilized polyamide 6 approved and listed by W.R.C and NSF/ANSI 61 international for potable water. Information provided by Polyram Ram On Ind.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Polyram-PlusTek-PB305G33-Nylon-6-33-Glass-Fiber.php

Physical Properties	Metric	English	Comments
Density	1.37 g/cc	0.0495 lb/in ³	DIN 53479
Water Absorption	6.6 %	6.6 %	DIN 53495
Moisture Absorption at Equilibrium	2.1 %	2.1 %	50%RH; DIN 53714
Linear Mold Shrinkage	0.0035 cm/cm	0.0035 in/in	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	113	113	ASTM-D785
Tensile Strength, Yield	110 MPa	16000 psi	ASTM-D638
Elongation at Break	5.0 %	5.0 %	ASTM-D638
Flexural Strength	200 MPa	29000 psi	ASTM D790
Flexural Modulus	5.00 GPa	725 ksi	ASTM-D790
Izod Impact, Notched	2.00 J/cm @Temperature 23.0 °C	3.75 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)	217 °C	423 °F	DIN 53461
Deflection Temperature at 1.8 MPa (264 psi)	205 °C	401 °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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