

Polyram PlusTek PB320G6 Nylon 6, 30% Glass Fiber, Flame Retardant

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6, Glass Fiber Filled, Flame Retardant

Material Notes:

30% glass-fiber reinforced, flame retardant 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-PB320G6-Nylon-6-30-Glass-Fiber-Flame-Retardant.php

Physical Properties	Metric	English	Comments
Density	1.38 g/cc	0.0499 lb/in ³	DIN 53479
Water Absorption	4.8 %	4.8 %	DIN 53495
Moisture Absorption at Equilibrium	1.6 %	1.6 %	50%RH; DIN 53714
Linear Mold Shrinkage	0.0030 - 0.0040 cm/cm	0.0030 - 0.0040 in/in	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	120	120	ASTM-D785
Tensile Strength, Yield	110 MPa	16000 psi	ASTM-D638
Elongation at Break	3.0 %	3.0 %	ASTM-D638
Flexural Strength	170 MPa	24700 psi	ASTM D790
Flexural Modulus	5.50 GPa	798 ksi	ASTM-D790
Izod Impact, Notched	0.900 J/cm @Temperature 23.0 °C	1.69 ft-lb/in @Temperature 73.4 °F	ASTM-D256

Thermal Properties	Metric	English	Comments
Melting Point	220 °C	428 °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)	215 °C	419 °F	DIN 53461
Deflection Temperature at 1.8 MPa (264 psi)	190 °C	374 °F	DIN 53461
Flammability, UL94	V-0 @Thickness 3.00 mm	V-0 @Thickness 0.118 in	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+12 ohm-cm	1.00e+12 ohm-cm	DIN 53482
Surface Resistance	1.00e+10 ohm	1.00e+10 ohm	DIN 53482
Dielectric Constant	4.3	4.3	VDE 0303/4
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Dielectric Strength	65.0 kV/mm	1650 kV/in	VDE 0303/4

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