

Polyram PlusTek PA320G5 Nylon 6.6, 25% Glass Fiber, Flame Retardant

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, Glass Fiber Filled, Flame Retardant

Material Notes:

25% glass fiber reinforced, flame retardant and high stiffness 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-PA320G5-Nylon-66-25-Glass-Fiber-Flame-Retardant.php

Physical Properties	Metric	English	Comments
Density	1.60 g/cc	0.0578 lb/in ³	DIN 53479
Water Absorption	4.5 %	4.5 %	DIN 53495
Moisture Absorption at Equilibrium	1.5 %	1.5 %	50%RH; DIN 53714
Linear Mold Shrinkage	0.0040 - 0.0040 cm/cm	0.0040 - 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	200 MPa	29000 psi	ASTM D790
Flexural Modulus	6.70 GPa	972 ksi	ASTM-D790
Izod Impact, Notched	0.600 J/cm @Temperature 23.0 °C	1.12 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
	200 °C	392 °F	Short peaks operation
Flammability, UL94	V-0 @Thickness 3.00 mm	V-0 @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 Electrical Properties	1.00e+12 ohm Metric	1.00e+12 ohm English	DIN 53482 Comments
Dielectric Constant	3.8 @Frequency 1e+6 Hz	3.8 @Frequency 1e+6 Hz	VDE 0303/4
Dielectric Strength	70.0 kV/mm	1780 kV/in	VDE 0303/4

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