

## Polyram PlusTek RA320G3 Nylon 6.6, 15% Glass Fiber, Flame Retardant

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

### Material Notes:

15% glass fiber reinforced, flame retardant 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-RA320G3-Nylon-66-15-Glass-Fiber-Flame-Retardant.php](http://www.lookpolymers.com/polymer_Polyram-PlusTek-RA320G3-Nylon-66-15-Glass-Fiber-Flame-Retardant.php)

Physical Properties	Metric	English	Comments
Density	1.23 g/cc	0.0444 lb/in <sup>3</sup>	DIN 53479
Water Absorption	7.0 %	7.0 %	DIN 53495
Moisture Absorption at Equilibrium	2.2 %	2.2 %	50%RH; DIN 53714
Linear Mold Shrinkage	0.0035 - 0.0045 cm/cm	0.0035 - 0.0045 in/in	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	121	121	ASTM-D785
Tensile Strength, Yield	105 MPa	15200 psi	ASTM-D638
Elongation at Break	3.0 %	3.0 %	ASTM-D638
Flexural Strength	180 MPa	26100 psi	ASTM D790
Flexural Modulus	5.00 GPa	725 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	100 °C	212 °F	Continuous Use
	200 °C	392 °F	Short peaks operation
Deflection Temperature at 0.46 MPa (66 psi)	177 °C	350 °F	DIN 53461
Deflection Temperature at 1.8 MPa (264 psi)	121 °C	250 °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+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 @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

## Contact Songhan Plastic Technology Co.,Ltd.

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