

## Polyram PlusTek PB315G33 Nylon 6 for Injection Molding, 33% Glass Fiber Reinforced, UV and Heat Stabilized

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

### Material Notes:

33% Glass fiber reinforced, UV and heat stabilized Nylon 6 for injection molding applications. Information provided by Polyram.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Polyram-PlusTek-PB315G33-Nylon-6-for-Injection-Molding-33-Glass-Fiber-Reinforced-UV-and-Heat-Stabilized.php](http://www.lookpolymers.com/polymer_Polyram-PlusTek-PB315G33-Nylon-6-for-Injection-Molding-33-Glass-Fiber-Reinforced-UV-and-Heat-Stabilized.php)

Physical Properties	Metric	English	Comments
Density	1.37 g/cc	0.0495 lb/in <sup>3</sup>	ISO 1183
Moisture Absorption at Equilibrium	2.1 %	2.1 %	50% RH; ISO 62
Water Absorption at Saturation	6.6 %	6.6 %	ISO 62
Linear Mold Shrinkage	0.0020 - 0.0050 cm/cm	0.0020 - 0.0050 in/in	ISO 2577

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	113	113	
Tensile Strength, Yield	160 MPa	23200 psi	ISO 527
Elongation at Break	2.5 %	2.5 %	ISO 527
Flexural Strength	190 MPa	27600 psi	ISO 178
Flexural Modulus	4.80 GPa	696 ksi	ISO 178
Izod Impact, Notched (ISO)	10.0 kJ/m <sup>2</sup>	4.76 ft-lb/in <sup>2</sup>	ISO 180

Thermal Properties	Metric	English	Comments
Melting Point	218 °C	424 °F	ISO 11357
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	ISO 75
Deflection Temperature at 1.8 MPa (264 psi)	205 °C	401 °F	ISO 75
Flammability, UL94	HB	HB	
	@Thickness 3.00 mm	@Thickness 0.118 in	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+15 ohm-cm	1.00e+15 ohm-cm	IEC 60093
Surface Resistance	1.00e+12 ohm	1.00e+12 ohm	IEC 60093
Dielectric Constant	3.8	3.8	IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
Dielectric Strength	80.0 kV/mm	2030 kV/in	IEC 60250

## Contact Songhan Plastic Technology Co.,Ltd.

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