

## Polyram PlusTek PB318G9 Nylon 6 for Injection Molding, 45% Glass-fiber Reinforced, UV Stabilized

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6 , 50% Glass Fiber Filled

### Material Notes:

45% Glass-fiber reinforced Nylon 6, UV stabilized for injection molding applications. Information provided by Polyram.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Polyram-PlusTek-PB318G9-Nylon-6-for-Injection-Molding-45-Glass-fiber-Reinforced-UV-Stabilized.php](http://www.lookpolymers.com/polymer_Polyram-PlusTek-PB318G9-Nylon-6-for-Injection-Molding-45-Glass-fiber-Reinforced-UV-Stabilized.php)

Physical Properties	Metric	English	Comments
Density	1.50 g/cc	0.0542 lb/in <sup>3</sup>	ISO 1183
Water Absorption at Saturation	4.9 %	4.9 %	ISO 62
Linear Mold Shrinkage	0.0015 - 0.0040 cm/cm	0.0015 - 0.0040 in/in	ISO 2577

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	210 MPa	30500 psi	ISO 527
Elongation at Break	2.8 %	2.8 %	ISO 527
Tensile Modulus	14.2 GPa	2060 ksi	ISO 527
Flexural Strength	280 MPa	40600 psi	ISO 178
Flexural Modulus	11.4 GPa	1650 ksi	ISO 178
Izod Impact, Notched (ISO)	18.0 kJ/m <sup>2</sup>	8.57 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)	220 °C	428 °F	ISO 75
Deflection Temperature at 1.8 MPa (264 psi)	215 °C	419 °F	ISO 75
Flammability, UL94	HB	HB	
	@Thickness 3.00 mm	@Thickness 0.118 in	

Electrical Properties	Metric	English	Comments
-----------------------	--------	---------	----------

Volume Resistivity Electrical Properties	$1.00 \times 10^{12}$ ohm-cm Metric	$1.00 \times 10^{12}$ ohm-cm English	IEC 60093 Comments
Dielectric Strength	65.0 kV/mm	1650 kV/in	IEC 60250

## Contact Songhan Plastic Technology Co.,Ltd.

Website : [www.lookpolymers.com](http://www.lookpolymers.com)

Email : [sales@lookpolymers.com](mailto:sales@lookpolymers.com)

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215, Fengxian District, Shanghai City, China