

## Polyram PlusTek PB340S50 Nylon 6 for Injection Molding, 50% Glass-beads Reinforced, Heat Stabilized

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6, Glass Bead Filled

### Material Notes:

50% Glass-beads reinforced, 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-PB340S50-Nylon-6-for-Injection-Molding-50-Glass-beads-Reinforced-Heat-Stabilized.php](http://www.lookpolymers.com/polymer_Polyram-PlusTek-PB340S50-Nylon-6-for-Injection-Molding-50-Glass-beads-Reinforced-Heat-Stabilized.php)

Physical Properties	Metric	English	Comments
Density	1.45 g/cc	0.0524 lb/in <sup>3</sup>	ISO 1183
Water Absorption at Saturation	5.8 %	5.8 %	ISO 62
Linear Mold Shrinkage	0.0080 - 0.012 cm/cm	0.0080 - 0.012 in/in	ISO 2577

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	50.0 MPa	7250 psi	ISO 527
Elongation at Break	3.0 %	3.0 %	ISO 527
Tensile Modulus	2.00 GPa	290 ksi	ISO 527
Flexural Strength	120 MPa	17400 psi	ISO 178
Flexural Modulus	3.00 GPa	435 ksi	ISO 178
Izod Impact, Notched (ISO)	4.50 kJ/m <sup>2</sup>	2.14 ft-lb/in <sup>2</sup>	ISO 180
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	42.0 kJ/m <sup>2</sup>	20.0 ft-lb/in <sup>2</sup>	ISO 180
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Charpy Impact Unnotched	4.00 J/cm <sup>2</sup>	19.0 ft-lb/in <sup>2</sup>	ISO 179
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	4.60 J/cm <sup>2</sup>	21.9 ft-lb/in <sup>2</sup>	ISO 179
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Charpy Impact, Notched	0.420 J/cm <sup>2</sup>	2.00 ft-lb/in <sup>2</sup>	ISO 179
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	0.430 J/cm <sup>2</sup>	2.05 ft-lb/in <sup>2</sup>	ISO 179
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
Melting Point	218 °C	424 °F	ISO 11357
Maximum Service Temperature, Air	80.0 °C	176 °F	Continuous use
	180 °C	356 °F	Short peaks operation
Deflection Temperature at 0.46 MPa (66 psi)	190 °C	374 °F	ISO 75
Deflection Temperature at 1.8 MPa (264 psi)	90.0 °C	194 °F	ISO 75
Flammability, UL94	HB @Thickness 3.00 mm	HB @Thickness 0.118 in	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+15 ohm-cm	1.00e+15 ohm-cm	IEC 60093
Dielectric Strength	80.0 kV/mm	2030 kV/in	IEC 60250

## Contact Songhan Plastic Technology Co.,Ltd.

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