

## Polyram PlusTek PB302G50BK39D Nylon 6, 50% Glass Fiber Reinforced, UV and Heat Stabilized

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

### Material Notes:

50% Glass fiber reinforced, UV and heat stabilized Nylon 6. Approved and listed by W.R.C. Potable Water and NSF/ANSI 61 International. Information provided by Polyram.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Polyram-PlusTek-PB302G50BK39D-Nylon-6-50-Glass-Fiber-Reinforced-UV-and-Heat-Stabilized.php](http://www.lookpolymers.com/polymer_Polyram-PlusTek-PB302G50BK39D-Nylon-6-50-Glass-Fiber-Reinforced-UV-and-Heat-Stabilized.php)

Physical Properties	Metric	English	Comments
Density	1.58 g/cc	0.0571 lb/in <sup>3</sup>	ISO 1183
Moisture Absorption at Equilibrium	1.5 %	1.5 %	50% RH; ISO 62
Water Absorption at Saturation	4.8 %	4.8 %	ISO 62
Linear Mold Shrinkage	0.0010 - 0.0040 cm/cm	0.0010 - 0.0040 in/in	ISO 2577

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	124	124	
Tensile Strength, Yield	220 MPa	31900 psi	ISO 527
Elongation at Break	3.0 %	3.0 %	ISO 527
Tensile Modulus	12.3 GPa	1780 ksi	ISO 527
Flexural Strength	320 MPa	46400 psi	ISO 178
Flexural Modulus	14.0 GPa	2030 ksi	ISO 178
Izod Impact, Notched (ISO)	13.0 kJ/m <sup>2</sup>	6.19 ft-lb/in <sup>2</sup>	ISO 180
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Charpy Impact Unnotched	19.0 kJ/m <sup>2</sup>	9.04 ft-lb/in <sup>2</sup>	ISO 180
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Charpy Impact Unnotched	9.00 J/cm <sup>2</sup>	42.8 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	110 °C	230 °F	Continuous use

Thermal Properties	Metric 220 °C	English 428 °F	Comments 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)	210 °C	410 °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
Surface Resistance	1.00e+12 ohm	1.00e+12 ohm	IEC 60093
Dielectric Constant	3.8 @Frequency 1.00e+6 Hz	3.8 @Frequency 1.00e+6 Hz	IEC 60250
Dielectric Strength	80.0 kV/mm	2030 kV/in	IEC 60250

## Contact Songhan Plastic Technology Co.,Ltd.

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