

## PolyOne Bergamid™ B650 Mi10 Polyamide 6 (Nylon 6)

Category : Polymer , Thermoplastic , Nylon , Nylon 6

### Material Notes:

Information provided by PolyOne

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_PolyOne-Bergamid-B650-Mi10-Polyamide-6-Nylon-6.php](http://www.lookpolymers.com/polymer_PolyOne-Bergamid-B650-Mi10-Polyamide-6-Nylon-6.php)

Physical Properties	Metric	English	Comments
Density	1.20 g/cc	0.0434 lb/in <sup>3</sup>	DIN 53479
Ash	10 %	10 %	ISO 3451

Mechanical Properties	Metric	English	Comments
Charpy Impact Unnotched	NB	NB	ISO 179/1eU
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
Melting Point	223 °C	433 °F	ISO 3146
Maximum Service Temperature, Air	95.0 °C	203 °F	Continuous (GTP 50% Tensile); IEC 60216
	190 °C	374 °F	Short Time; IEC 60216
Deflection Temperature at 0.46 MPa (66 psi)	180 °C	356 °F	Unannealed; ISO 75-2/B
Deflection Temperature at 1.8 MPa (264 psi)	160 °C	320 °F	Unannealed; ISO 75-2/A
Flammability, UL94	HB	HB	UL 94
	@Thickness 0.800 mm	@Thickness 0.0315 in	
	HB	HB	UL 94
	@Thickness 1.60 mm	@Thickness 0.0630 in	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+12 ohm-cm	1.00e+12 ohm-cm	IEC 60093
Surface Resistance	1.00e+10 ohm	1.00e+10 ohm	IEC 60093
Dielectric Constant	6.2	6.2	IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	

Electrical Properties	0.20 Metric	0.20 English	Comments
Dissipation Factor	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	IEC 60253
Comparative Tracking Index	500 V	500 V	Solution A; IEC 60112

Descriptive Properties	Value	Comments
Generic Material	Nylon 6	
Generic Name	Polyamide 6 (Nylon 6)	
K-Value	69.0 to 76.0	No Standard; 96% H2SO4
Regional Availability	Europe	

## Contact Songhan Plastic Technology Co.,Ltd.

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