

## PolyOne Bergamid™ B65 G30 black IG 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-B65-G30-black-IG-Polyamide-6-Nylon-6.php](http://www.lookpolymers.com/polymer_PolyOne-Bergamid-B65-G30-black-IG-Polyamide-6-Nylon-6.php)

Physical Properties	Metric	English	Comments
Density	1.36 g/cc	0.0491 lb/in <sup>3</sup>	±0.03 g/cm <sup>3</sup> ; DIN 53479
Melt Flow	10 g/10 min @Load 2.16 kg, Temperature 235 °C	10 g/10 min @Load 4.76 lb, Temperature 455 °F	ISO 1133
Melt Index of Compound	8.0 g/10 min @Load 2.16 kg, Temperature 235 °C	8.0 g/10 min @Load 4.76 lb, Temperature 455 °F	cm <sup>3</sup> /10min; ISO 1133
Ash	30 %	30 %	ISO 3451

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	150 MPa @Temperature 23.0 °C	21800 psi @Temperature 73.4 °F	ISO 527-2/5
Elongation at Break	3.0 % @Temperature 23.0 °C	3.0 % @Temperature 73.4 °F	ISO 527-2/5
Tensile Modulus	8.30 GPa @Temperature 23.0 °C	1200 ksi @Temperature 73.4 °F	ISO 527-2/1
Charpy Impact Unnotched	5.50 J/cm <sup>2</sup> @Temperature 23.0 °C	26.2 ft-lb/in <sup>2</sup> @Temperature 73.4 °F	ISO 179/1eU
Charpy Impact, Notched	1.00 J/cm <sup>2</sup> @Temperature 23.0 °C	4.76 ft-lb/in <sup>2</sup> @Temperature 73.4 °F	ISO 179/1eA

Thermal Properties	Metric	English	Comments
Melting Point	223 °C	433 °F	ISO 3146
Maximum Service Temperature, Air	110 °C	230 °F	Continuous (GTP 50% Tensile); IEC 60216
	190 °C	374 °F	Short Time; IEC 60216

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	220 °C	428 °F	Unannealed; ISO 75-2/B
Deflection Temperature at 1.8 MPa (264 psi)	210 °C	410 °F	Unannealed; ISO 75-2/A

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+15 ohm-cm	1.00e+15 ohm-cm	IEC 93
Surface Resistance	1.00e+13 ohm	1.00e+13 ohm	IEC 93

Descriptive Properties	Value	Comments
Filler / Reinforcement	Glass Fiber Reinforcement, 30% Filler by Weight	
Forms	Pellets	
Generic Material	Nylon 6	
Generic Name	Polyamide 6 (Nylon 6)	
Regional Availability	Europe	
RoHS Compliance	RoHS Compliant	

## Contact Songhan Plastic Technology Co.,Ltd.

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