

## PolyOne Bergamid™ B70 VN4805 LS PM-Z BK 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-B70-VN4805-LS-PM-Z-BK-Polyamide-6-Nylon-6.php](http://www.lookpolymers.com/polymer_PolyOne-Bergamid-B70-VN4805-LS-PM-Z-BK-Polyamide-6-Nylon-6.php)

Physical Properties	Metric	English	Comments
Density	1.07 g/cc @Temperature 23.0 °C	0.0387 lb/in³ @Temperature 73.4 °F	±0.02; ISO 1183

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	62.0 MPa @Thickness 4.00 mm, Temperature 23.0 °C	8990 psi @Thickness 0.157 in, Temperature 73.4 °F	Injection Molded; ISO 527-2/50
Elongation at Break	>= 30 % @Thickness 4.00 mm, Temperature 23.0 °C	>= 30 % @Thickness 0.157 in, Temperature 73.4 °F	Injection Molded; ISO 527-2/50
Elongation at Yield	4.0 % @Thickness 4.00 mm, Temperature 23.0 °C	4.0 % @Thickness 0.157 in, Temperature 73.4 °F	ISO 527-2/50
Tensile Modulus	2.60 GPa @Thickness 4.00 mm, Temperature 23.0 °C	377 ksi @Thickness 0.157 in, Temperature 73.4 °F	Injection Molded; ISO 527-2/50
Flexural Strength	63.0 MPa @Temperature 23.0 °C	9140 psi @Temperature 73.4 °F	Injection Molded; ISO 178
Flexural Modulus	2.00 GPa @Temperature 23.0 °C	290 ksi @Temperature 73.4 °F	Injection Molded; ISO 178
Charpy Impact Unnotched	NB @Temperature 23.0 °C	NB @Temperature 73.4 °F	Injection Molded; ISO 179
	NB @Temperature -30.0 °C	NB @Temperature -22.0 °F	Injection Molded; ISO 179
Charpy Impact, Notched	1.00 J/cm² @Temperature -30.0 °C	4.76 ft-lb/in² @Temperature -22.0 °F	Injection Molded; ISO 179
	6.00 J/cm²	28.6 ft-lb/in²	

Mechanical Properties	Metric	English	Comments
	@ Temperature 23.0 °C	@ Temperature 73.4 °F	Injection Molded; ISO 179

Thermal Properties	Metric	English	Comments
Flammability, UL94	HB @Thickness 3.20 mm	HB @Thickness 0.126 in	ALL; UL 94

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+15 ohm-cm	1.00e+15 ohm-cm	ASTM D257
Surface Resistance	1.00e+15 ohm	1.00e+15 ohm	ASTM D257

Processing Properties	Metric	English	Comments
Melt Temperature	240 - 260 °C	464 - 500 °F	
Mold Temperature	60.0 - 80.0 °C	140 - 176 °F	
Drying Temperature	60.0 °C	140 °F	
Dry Time	4.00 hour	4.00 hour	

Descriptive Properties	Value	Comments
Features	Impact Modified	
	Laser Markable	
Forms	Pellets	
Generic Material	Nylon 6	
Generic Name	Polyamide 6 (Nylon 6)	
Processing Method	Injection Molding	
Regional Availability	Europe	
RoHS Compliance	RoHS Compliant	

## Contact Songhan Plastic Technology Co.,Ltd.

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