

## PolyOne Bergamid™ A70 G30 U Polyamide 66 (Nylon 66)

Category : Polymer , Thermoplastic , Nylon , Nylon 66

### Material Notes:

Information provided by PolyOne

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_PolyOne-Bergamid-A70-G30-U-Polyamide-66-Nylon-66.php](http://www.lookpolymers.com/polymer_PolyOne-Bergamid-A70-G30-U-Polyamide-66-Nylon-66.php)

Physical Properties	Metric	English	Comments
Density	1.60 g/cc	0.0578 lb/in <sup>3</sup>	±0.03 g/cm <sup>3</sup> ; ISO 1183
Water Absorption	0.030 % @Thickness 3.18 mm	0.030 % @Thickness 0.125 in	@ 24 hrs; ASTM D570
Linear Mold Shrinkage, Flow	0.0010 - 0.0020 cm/cm	0.0010 - 0.0020 in/in	ASTM D955
Ash	30 %	30 %	ISO 3451

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	170 MPa @Temperature 23.0 °C	24700 psi @Temperature 73.4 °F	ISO 527-2/5
Elongation at Break	2.0 % @Temperature 23.0 °C	2.0 % @Temperature 73.4 °F	ISO 527-2/5
Tensile Modulus	11.6 GPa @Temperature 23.0 °C	1680 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	0.800 J/cm <sup>2</sup> @Temperature 23.0 °C	3.81 ft-lb/in <sup>2</sup> @Temperature 73.4 °F	ISO 179/1eA

Thermal Properties	Metric	English	Comments
Melting Point	261 °C	502 °F	ISO 3146
Maximum Service Temperature, Air	130 °C	266 °F	Continuous (GTP 50% Tensile); IEC 60216
	220 °C	428 °F	Short Time; IEC 60216
Deflection Temperature at 0.46 MPa (66 psi)	250 °C	482 °F	Unannealed; ISO 75-2/B
Deflection Temperature at 1.8 MPa	250 °C	482 °F	

(264 psi) Thermal Properties	Metric	English	Unannealed; ISO 75-2/A Comments
Flammability, UL94	V-0 @Thickness 0.800 mm	V-0 @Thickness 0.0315 in	UL 94
Glow Wire Test	960 °C @Thickness 1.60 mm	1760 °F @Thickness 0.0630 in	Flammability Index; IEC 60695-2-12

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
Comparative Tracking Index	300 V	300 V	Solution A; IEC 60112

Processing Properties	Metric	English	Comments
Melt Temperature	265 - 290 °C	509 - 554 °F	
Mold Temperature	60.0 - 90.0 °C	140 - 194 °F	

Descriptive Properties	Value	Comments
Features	Flame Retardant Halogenated	
Filler / Reinforcement	Glass Fiber Reinforcement, 30% Filler by Weight	
Forms	Pellets	
Generic Material	Nylon 66	
Generic Name	Polyamide 66 (Nylon 66)	
Processing Method	Injection Molding	
Regional Availability	Europe	
RoHS Compliance	RoHS Compliant	

## Contact Songhan Plastic Technology Co.,Ltd.

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