

# Bergamid™ B70 G30 BK Polyamide 6

## **Key Characteristics**

General	
Material Status	Commercial: Active
Regional Availability	Asia Pacific
Filler / Reinforcement	Glass Fiber, 30% Filler by Weight
Automotive Specifications	<ul> <li>GM QK 002713 Color: EM00000959BI Black</li> </ul>
Appearance	Black
Processing Method	Injection Molding

## Technical Properties 1

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density / Specific Gravity	1.37	1.37	ASTM D792
Molding Shrinkage	0.30 to 0.70 %	0.30 to 0.70 %	ASTM D955
Mechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Strength <sup>2</sup>	23200 psi	160 MPa	ASTM D638
Flexural Modulus 3	1.19E+6 psi	8200 MPa	ASTM D790
Flexural Strength <sup>3</sup>	33400 psi	230 MPa	ASTM D790
Impact	Typical Value (English)	Typical Value (SI)	Test Method
Notched Izod Impact			ASTM D256
73°F (23°C), 0.126 in (3.20 mm)	2.1 ft·lb/in	110 J/m	
Thermal	Typical Value (English)	Typical Value (SI)	Test Method
Deflection Temperature Under Load			ASTM D648
264 psi (1.8 MPa), Unannealed, 0.126 in (3.20 mm)	410 °F	210 °C	
Electrical	Typical Value (English)	Typical Value (SI)	Test Method
Surface Resistivity	1.0E+14 ohms	1.0E+14 ohms	ASTM D257
Flammability	Typical Value (English)	Typical Value (SI)	Test Method
Flame Rating (0.06 in (1.6 mm))	HB	НВ	Internal Method

## **Processing Information**

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Injection	Typical Value (English)	Typical Value (SI)	
Drying Temperature	176 to 194 °F	80 to 90 °C	
Drying Time	4.0 to 6.0 hr	4.0 to 6.0 hr	
Rear Temperature	464 to 536 °F	240 to 280 °C	
Middle Temperature	464 to 536 °F	240 to 280 °C	
Front Temperature	464 to 536 °F	240 to 280 °C	
Mold Temperature	149 to 185 °F	65 to 85 °C	

## Injection Notes

Injection Pressure: MED-HIGH Hold Pressure: MED-HIGH Screw Speed: MODERATE Back Pressure: LOW

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### **Notes**

- <sup>1</sup> Typical values are not to be construed as specifications.
- <sup>2</sup> 0.20 in/min (5.0 mm/min)
- <sup>3</sup> 0.051 in/min (1.3 mm/min)

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