

# Bergamid™ B70 G15 H black TM-Z SO6 Polyamide 6

## **Key Characteristics**

General			
Material Status	Commercial: Active		
Regional Availability	<ul><li> Africa &amp; Middle East</li><li> Asia Pacific</li><li> Europe</li><li> North America</li></ul>		
Filler / Reinforcement	Glass Fiber, 15% Filler by Weight		
Features	Good Color Stability High Heat Resistance High Impact Resistance	÷	
RoHS Compliance	RoHS Compliant		
Forms	• Pellets		

## Technical Properties 1

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hysical	Typical Value (English)	Typical Value (SI)	Test Method
Density <sup>2</sup> (73°F (23°C))	1.17 g/cm³	1.17 g/cm³	DIN 53479
Melt Mass-Flow Rate (MFR) (235°C/2.16 kg)	> 6.0 g/10 min	> 6.0 g/10 min	ISO 1133
Melt Volume-Flow Rate (MVR) (235°C/2.16 kg)	> 5.00 cm <sup>3</sup> /10min	> 5.00 cm <sup>3</sup> /10min	ISO 1133
Molding Shrinkage			ISO 294-4
Across Flow: 0.0787 in (2.00 mm)	0.60 to 1.0 %	0.60 to 1.0 %	
Flow: 0.0787 in (2.00 mm)	0.20 to 0.60 %	0.20 to 0.60 %	
Ash Content	15 %	15 %	ISO 3451
lechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Modulus			ISO 527-2/1
73°F (23°C), 0.157 in (4.00 mm)	783000 psi	5400 MPa	
Tensile Stress			ISO 527-2/5
Break, 73°F (23°C), 0.157 in (4.00 mm)	14500 psi	100 MPa	
Tensile Strain			ISO 527-2/5
Break, 73°F (23°C), 0.157 in (4.00 mm)	> 4.0 %	> 4.0 %	
npact	Typical Value (English)	Typical Value (SI)	Test Method
Charpy Notched Impact Strength (73°F (23°C))	> 8.1 ft·lb/in²	> 17 kJ/m²	ISO 179/1eA
Charpy Unnotched Impact Strength			ISO 179/1eU
73°F (23°C)	36 ft·lb/in²	75 kJ/m²	
nermal	Typical Value (English)	Typical Value (SI)	Test Method
Heat Deflection Temperature			ISO 75-2/B
66 psi (0.45 MPa), Unannealed	401 °F	205 °C	
Maximum Use Temperature			IEC 60216
_ 3	203 °F	95 °C	
Short Time	374 °F	190 °C	
Melting Temperature (DSC)	433 °F	223 °C	ISO 3146
ectrical	Typical Value (English)	Typical Value (SI)	Test Method
Surface Resistivity	1.0E+12 ohms	1.0E+12 ohms	IEC 60093
		1.0E+13 ohms·cm	IEC 60093

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#### **Processing Information**

Injection	Typical Value (English)	Typical Value (SI)	
Drying Temperature	176 °F	80 °C	
Drying Time	< 4.0 hr	< 4.0 hr	
Processing (Melt) Temp	464 to 536 °F	240 to 280 °C	
Mold Temperature	140 to 185 °F	60 to 85 °C	

#### **Notes**

<sup>1</sup> Typical values are not to be construed as specifications.

<sup>2</sup> ±0.03 g/cm<sup>3</sup>

<sup>3</sup> Continuous (GTP 50% Tensile)

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