



# Bergamid™ A70 G15 H natural Polyamide 66

## Key Characteristics

General	
Material Status	• Commercial: Active
Regional Availability	• Africa & Middle East • Europe • Asia Pacific • North America
Filler / Reinforcement	• Glass Fiber, 15% Filler by Weight
Features	• Heat Stabilized
RoHS Compliance	• RoHS Compliant
Forms	• Pellets

## Technical Properties <sup>1</sup>

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density <sup>2</sup>	1.23 g/cm <sup>3</sup>	1.23 g/cm <sup>3</sup>	DIN 53479
K-Value <sup>3</sup>	74.0 to 78.0	74.0 to 78.0	
Mechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Modulus <sup>4</sup> (73°F (23°C))	870000 psi	6000 MPa	ISO 527-2
Tensile Stress (Break, 73°F (23°C))	18900 psi	130 MPa	ISO 527-2/5
Tensile Strain (Break, 73°F (23°C))	3.0 %	3.0 %	ISO 527-2/5
Impact	Typical Value (English)	Typical Value (SI)	Test Method
Charpy Notched Impact Strength			ISO 179/A
-22°F (-30°C)	3.3 ft·lb/in <sup>2</sup>	7.0 kJ/m <sup>2</sup>	
73°F (23°C)	3.8 ft·lb/in <sup>2</sup>	8.0 kJ/m <sup>2</sup>	
Charpy Unnotched Impact Strength			ISO 179
-22°F (-30°C)	20 ft·lb/in <sup>2</sup>	42 kJ/m <sup>2</sup>	
73°F (23°C)	21 ft·lb/in <sup>2</sup>	45 kJ/m <sup>2</sup>	
Thermal	Typical Value (English)	Typical Value (SI)	Test Method
Heat Deflection Temperature 66 psi (0.45 MPa), Unannealed	482 °F	250 °C	ISO 75-2/B
Heat Deflection Temperature 264 psi (1.8 MPa), Unannealed	482 °F	250 °C	ISO 75-2/A
Maximum Use Temperature -- <sup>5</sup>	266 °F	130 °C	IEC 60216
Short Time	428 °F	220 °C	
Melting Temperature (DSC)	502 °F	261 °C	ISO 3146
Electrical	Typical Value (English)	Typical Value (SI)	Test Method
Surface Resistivity	> 1.0E+12 ohms	> 1.0E+12 ohms	IEC 60093
Volume Resistivity	> 1.0E+11 ohms·cm	> 1.0E+11 ohms·cm	IEC 60093

### 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> 96% H2SO4

<sup>4</sup> 0.039 in/min (1 mm/min)

<sup>5</sup> Continuous (GTP 50% Tensile)