



# Bergamid™ AB70 GK20 H UF

## Polyamide 66/6 Copolymer

### Key Characteristics

General	
Material Status	• Commercial: Active
Regional Availability	• Europe
Filler / Reinforcement	• Glass Bead, 20% Filler by Weight
Features	• Flame Retardant • Halogen Free • Heat Stabilized • Low (to None) Phosphorus Content
RoHS Compliance	• RoHS Compliant
Forms	• Pellets
Processing Method	• Injection Molding

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

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density / Specific Gravity <sup>2</sup>	1.33	1.33	ISO 1183
Mechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Modulus <sup>3</sup> 73°F (23°C), Injection Molded	508000 psi	3500 MPa	ISO 527
Tensile Strength <sup>4</sup> 73°F (23°C), Injection Molded	7250 psi	50.0 MPa	ISO 527
Tensile Elongation <sup>4</sup> Break, 73°F (23°C), Injection Molded	4.0 %	4.0 %	ISO 527
Impact	Typical Value (English)	Typical Value (SI)	Test Method
Charpy Notched Impact Strength 73°F (23°C), Injection Molded	1.4 ft·lb/in <sup>2</sup>	3.0 kJ/m <sup>2</sup>	ISO 179/1eA
Charpy Unnotched Impact Strength 73°F (23°C), Injection Molded	14 ft·lb/in <sup>2</sup>	30 kJ/m <sup>2</sup>	ISO 179
Thermal	Typical Value (English)	Typical Value (SI)	Test Method
Continuous Use Temperature	221 °F	105 °C	ISO 216
Melting Temperature (DSC)	469 °F	243 °C	ISO 3146
Electrical	Typical Value (English)	Typical Value (SI)	Test Method
Surface Resistivity	1.0E+13 ohms	1.0E+13 ohms	IEC 60093
Volume Resistivity	1.0E+15 ohms·cm	1.0E+15 ohms·cm	IEC 60093
Flammability	Typical Value (English)	Typical Value (SI)	Test Method
Flame Rating (0.06 in (1.6 mm))	V-2	V-2	UL 94

### Processing Information

Injection	Typical Value (English)	Typical Value (SI)
Drying Temperature	176 to 194 °F	80 to 90 °C
Drying Time	3.0 to 4.0 hr	3.0 to 4.0 hr
Suggested Max Moisture	< 0.10 %	< 0.10 %
Processing (Melt) Temp	482 to 527 °F	250 to 275 °C
Mold Temperature	104 to 176 °F	40 to 80 °C

**Notes**

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

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<sup>2</sup> ±0.03

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<sup>3</sup> 0.039 in/min (1 mm/min)

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<sup>4</sup> 0.20 in/min (5.0 mm/min)



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