



Bergamid™ A70 G35 H U BK SO

Polyamide 66

Key Characteristics

Product Description	
6616064	
General	
Material Status	• Commercial: Active
Regional Availability	• Europe
Filler / Reinforcement	• Glass Fiber, 35% Filler by Weight
Additive	• Heat Stabilizer
Features	• Flame Retardant
RoHS Compliance	• RoHS Compliant
Forms	• Pellets
Processing Method	• Injection Molding

Technical Properties ¹

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density	1.50 g/cm ³	1.50 g/cm ³	ISO 1183
Molding Shrinkage - Flow ² 73°F (23°C), 0.157 in (4.00 mm)	0.30 to 0.50 %	0.30 to 0.50 %	ISO 294-4
Mechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Modulus 73°F (23°C), 0.157 in (4.00 mm)	1.74E+6 psi	12000 MPa	ISO 527-2
Tensile Stress Break, 73°F (23°C), 0.157 in (4.00 mm)	18900 psi	130 MPa	ISO 527-2
Tensile Strain Break, 73°F (23°C), 0.157 in (4.00 mm)	2.0 %	2.0 %	ISO 527-2
Impact	Typical Value (English)	Typical Value (SI)	Test Method
Charpy Notched Impact Strength -22°F (-30°C) 73°F (23°C)	2.6 ft·lb/in ² 3.6 ft·lb/in ²	5.5 kJ/m ² 7.5 kJ/m ²	ISO 179
Charpy Unnotched Impact Strength -22°F (-30°C) 73°F (23°C), Injection Molded	19 ft·lb/in ² 24 ft·lb/in ²	40 kJ/m ² 50 kJ/m ²	ISO 179
Thermal	Typical Value (English)	Typical Value (SI)	Test Method
Heat Deflection Temperature 264 psi (1.8 MPa), Annealed	457 °F	236 °C	ISO 75-2/A
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
Comparative Tracking Index	600 V	600 V	IEC 60112
Flammability	Typical Value (English)	Typical Value (SI)	Test Method
Flame Rating			UL 94
0.031 in (0.8 mm), ALL	V-0	V-0	
0.06 in (1.6 mm), ALL	V-0	V-0	
0.13 in (3.2 mm), ALL	V-0	V-0	

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Flammability	Typical Value (English)	Typical Value (SI)	Test Method
Glow Wire Flammability Index			IEC 60695-2-12
0.031 in (0.8 mm)	1760 °F	960 °C	
0.12 in (3.0 mm)	1760 °F	960 °C	

Processing Information

Injection	Typical Value (English)	Typical Value (SI)
Drying Temperature	176 to 194 °F	80.0 to 90.0 °C
Drying Time	4.0 hr	4.0 hr
Processing (Melt) Temp	500 to 536 °F	260 to 280 °C
Mold Temperature	149 to 185 °F	65.0 to 85.0 °C

Notes

¹ Typical values are not to be construed as specifications.

² Mold Shrinkage on Tensile Bar, flow Bergamnn Method

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