Bergamid™ A70 G30 H
Polyamide 66

Key Characteristics

General		
Material Status	• Commercial: Active	
Regional Availability	• Africa & Middle East • Asia Pacific	• Europe • North America
Filler / Reinforcement	• Glass Fiber, 30% Filler by Weight	
Features	• Heat Stabilized	
RoHS Compliance	• RoHS Compliant	
Forms	• Pellets	

Technical Properties [1]

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density [2]	1.35 g/cm³	1.35 g/cm³	DIN 53479
K-Value [3]	74.0 to 78.0	74.0 to 78.0	

Mechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Modulus [4] (73°F (23°C))	1.45E+6 psi	10000 MPa	ISO 527-2
Tensile Stress (Break, 73°F (23°C))	26800 psi	185 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)	5.7 ft·lb/in²	12 kJ/m²	
73°F (23°C)	6.2 ft·lb/in²	13 kJ/m²	
Charpy Unnotched Impact Strength			ISO 179
-22°F (-30°C)	36 ft·lb/in²	75 kJ/m²	
73°F (23°C)	40 ft·lb/in²	85 kJ/m²	

Thermal	Typical Value (English)	Typical Value (SI)	Test Method
Deflection Temperature Under Load			ISO 75-2/B
66 psi (0.45 MPa), Unannealed	482 °F	250 °C	
Deflection Temperature Under Load			ISO 75-2/A
264 psi (1.8 MPa), Unannealed	482 °F	250 °C	
Maximum Use Temperature			IEC 60216
-- [5]	266 °F	130 °C	
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+14 ohms·cm	> 1.0E+14 ohms·cm	IEC 60093
Relative Permittivity (1 MHz)	3.70	3.70	IEC 60250
Comparative Tracking Index (Solution A)	500 V	500 V	IEC 60112

Flammability	Typical Value (English)	Typical Value (SI)	Test Method
Flame Rating			Internal Method
0.03 to 0.12 in (0.8 to 3.0 mm), ALL	HB	HB	

Processing Information

Injection	Typical Value (English)	Typical Value (SI)
Drying Temperature	176 °F	80 °C
Drying Time	3.0 to 4.0 hr	3.0 to 4.0 hr
Suggested Max Moisture	0.20 %	0.20 %
Processing (Melt) Temp	536 to 572 °F	280 to 300 °C
Mold Temperature	122 to 194 °F	50 to 90 °C

Notes

[1] Typical values are not to be construed as specifications.

[2] ±0.03 g/cm³

[3] 96% H_2SO_4

[4] 0.039 in/min (1 mm/min)

[5] Continuous (GTP 50% Tensile)

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