Bergamid™ B700 G20 H UF

Polyamide 6

Key Characteristics

General			
Material Status	• Commercial: Active		
Regional Availability	• Africa & Middle East	• Asia Pacific	• Europe
Filler / Reinforcement	• Glass Fiber, 20% Filler by Weight		
Additive	• Heat Stabilizer		
Features	• Flame Retardant • Halogen Free	• Heat Stabilized • Low (to None) Phosphorus Content	
RoHS Compliance	• RoHS Compliant		
Forms	• Pellets		

Technical Properties [1]

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density [2]	1.36 g/cm³	1.36 g/cm³	DIN 53479
Molding Shrinkage - Flow (0.118 in (3.00 mm))	5.1E-3 to 6.3E-3 in/in	0.51 to 0.63 %	Internal Method
Molding Shrinkage - Across Flow (0.118 in (3.00 mm))	5.9E-3 to 7.2E-3 in/in	0.59 to 0.72 %	Internal Method
Ash Content	20 %	20 %	ISO 3451
Mechanical	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Tensile Modulus (73°F (23°C))	1.20E+6 psi	8300 MPa	ISO 527-2/1
Tensile Stress (Break, 73°F (23°C))	13800 psi	95.0 MPa	ISO 527-2/5
Tensile Strain (Break, 73°F (23°C))	2.1 %	2.1 %	ISO 527-2/5
Impact	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Charpy Notched Impact Strength (73°F (23°C))	4.0 ft·lb/in²	8.4 kJ/m²	ISO 179/1eA
Charpy Unnotched Impact Strength			ISO 179/1eU
73°F (23°C)	25 ft·lb/in²	53 kJ/m²	
Thermal	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Heat Deflection Temperature			ISO 75-2/B
66 psi (0.45 MPa), Unannealed	428 °F	220 °C	
Maximum Use Temperature			IEC 60216
-- [3]	230 °F	110 °C	
Short Time	374 °F	190 °C	
Melting Temperature (DSC)	433 °F	223 °C	ISO 3146
Electrical	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Surface Resistivity	1.0E+10 ohms	1.0E+10 ohms	IEC 60093
Volume Resistivity	1.0E+12 ohms·cm	1.0E+12 ohms·cm	IEC 60093
Comparative Tracking Index (Solution A)	600 V	600 V	IEC 60112
Flammability	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Flame Rating (0.06 in (1.5 mm), ALL)	V-0	V-0	Internal Method
Glow Wire Ignition Temperature [4]			IEC 60695-2-13
0.12 in (3.0 mm)	1760 °F	960 °C	

Notes

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

[2] ±0.03 g/cm³

[3] Continuous (GTP 50% Tensile)

[4] 0.8 mm wire

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