



Bergamid™ B700 G20 H UF RAL7035

Polyamide 6

Key Characteristics

Product Description

Glass fiber reinforced, halogen free flame retardant PA6 compound

General

Material Status	• Commercial: Active
Regional Availability	• Asia Pacific
Filler / Reinforcement	• Glass Fiber, 20% Filler by Weight
Features	• Flame Retardant
Appearance	• Green
Processing Method	• Injection Molding

Technical Properties ¹

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density / Specific Gravity	1.36	1.36	ASTM D792
Molding Shrinkage	0.30 to 0.40 %	0.30 to 0.40 %	ASTM D955
Mechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Strength ²	15200 psi	105 MPa	ASTM D638
Flexural Modulus ³	1.06E+6 psi	7300 MPa	ASTM D790
Flexural Strength ³	26100 psi	180 MPa	ASTM D790
Impact	Typical Value (English)	Typical Value (SI)	Test Method
Notched Izod Impact	1.2 ft·lb/in	65 J/m	ASTM D256
Thermal	Typical Value (English)	Typical Value (SI)	Test Method
Deflection Temperature Under Load			ASTM D648
264 psi (1.8 MPa), Unannealed, 0.126 in (3.20 mm)	338 °F	170 °C	
Electrical	Typical Value (English)	Typical Value (SI)	Test Method
Surface Resistivity	> 1.0E+12 ohms	> 1.0E+12 ohms	ASTM D257
Flammability	Typical Value (English)	Typical Value (SI)	Test Method
Flame Rating (0.06 in (1.6 mm))	V-0	V-0	Internal Method

Processing Information

Injection	Typical Value (English)	Typical Value (SI)
Drying Temperature	176 to 194 °F	80 to 90 °C
Drying Time	2.0 to 4.0 hr	2.0 to 4.0 hr
Processing (Melt) Temp	464 to 536 °F	240 to 280 °C
Mold Temperature	149 to 185 °F	65 to 85 °C
Injection Notes		
Injection Pressure: MED-HIGH		
Hold Pressure: MED-HIGH		
Screw Speed: MODERATE		
Back Pressure: LOW		

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Notes

¹ Typical values are not to be construed as specifications.² 0.20 in/min (5.0 mm/min)³ 0.051 in/min (1.3 mm/min)

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