



Bergamid™ B70 G30 Natural Polyamide 6

Key Characteristics

General	
Material Status	• Commercial: Active
Regional Availability	• Europe
Filler / Reinforcement	• Glass Fiber, 30% Filler by Weight
Features	• Good Processability • High Impact Resistance • Good Strength • Medium Viscosity
Uses	• Appliances • Consumer Applications • Automotive Applications • Industrial Applications
RoHS Compliance	• RoHS Compliant
Appearance	• Natural Color
Forms	• Pellets
Processing Method	• Injection Molding
Resin ID (ISO 1043)	• PA6-GF30

Technical Properties ¹

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Specific Gravity	1.36	1.36	ISO 1183
Molding Shrinkage	0.30 to 0.60 %	0.30 to 0.60 %	ASTM D955
Mechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Modulus ²	1.31E+6 psi	9000 MPa	ISO 527-2
Tensile Strength ³	23200 psi	160 MPa	ISO 527-2
Tensile Strain ⁴ (Break)	3.5 %	3.5 %	ISO 527-2
Impact	Typical Value (English)	Typical Value (SI)	Test Method
Notched Izod Impact Strength	7.6 ft·lb/in ²	16 kJ/m ²	ISO 180
Thermal	Typical Value (English)	Typical Value (SI)	Test Method
Heat Deflection Temperature 264 psi (1.8 MPa), Annealed	392 °F	200 °C	ISO 75-2/A ISO 306 ⁵ IEC 60695-10-2
Vicat Softening Temperature	410 °F	210 °C	
Ball Pressure Test 257°F (125°C), 0.0787 in (2.00 mm)	Pass	Pass	
Electrical	Typical Value (English)	Typical Value (SI)	Test Method
Comparative Tracking Index (Solution A)	450 V	450 V	IEC 60112
Flammability	Typical Value (English)	Typical Value (SI)	Test Method
Flame Rating (0.06 in (1.6 mm))	HB	HB	Internal Method IEC 60695-2-12
Glow Wire Flammability Index 0.08 in (2.0 mm)	1200 °F	650 °C	

Processing Information

Injection	Typical Value (English)	Typical Value (SI)
Drying Temperature	176 to 194 °F	80.0 to 90.0 °C
Drying Time	2.0 to 4.0 hr	2.0 to 4.0 hr
Processing (Melt) Temp	455 to 500 °F	235 to 260 °C
Mold Temperature	176 °F	80.0 °C

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Injection Notes

Injection Pressure: MED-HIGH

Hold Pressure: MED-HIGH

Screw Speed: MODERATE

Back Pressure: LOW

Notes¹ Typical values are not to be construed as specifications.² 0.039 in/min (1.0 mm/min)³ 0.20 in/min (5.0 mm/min)⁴ 0.20 in/min (5 mm/min)⁵ 120°C/h, A (10N)**CONTACT INFORMATION****Americas**United States - Avon Lake
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