

Bergamid™ A70 G50 NC055

Polyamide 66

Key Characteristics

Product Description

Glass Fiber Reinforced PA66 Compound with Heat Stabilized.

General

Material Status	• Proprietary and/or Private
Regional Availability	• Asia Pacific
Filler / Reinforcement	• Glass Fiber, 50% Filler by Weight
Features	• Heat Stabilized
Appearance	• Natural Color
Processing Method	• Injection Molding

Technical Properties¹

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density / Specific Gravity	1.59	1.59	ASTM D792
Molding Shrinkage	0.10 to 0.40 %	0.10 to 0.40 %	ASTM D955
Mechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Strength ²	30500 psi	210 MPa	ASTM D638
Flexural Modulus ³	2.03E+6 psi	14000 MPa	ASTM D790
Flexural Strength ³	47900 psi	330 MPa	ASTM D790
Impact	Typical Value (English)	Typical Value (SI)	Test Method
Notched Izod Impact 73°F (23°C), 0.126 in (3.20 mm)	3.2 ft-lb/in	170 J/m	ASTM D256
Thermal	Typical Value (English)	Typical Value (SI)	Test Method
Deflection Temperature Under Load 264 psi (1.8 MPa), Unannealed, 0.126 in (3.20 mm)	482 °F	250 °C	ASTM D648
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))	HB	HB	Internal Method

Processing Information

Injection	Typical Value (English)	Typical Value (SI)
Drying Temperature	176 to 194 °F	80 to 90 °C
Drying Time	4.0 to 6.0 hr	4.0 to 6.0 hr
Rear Temperature	500 to 536 °F	260 to 280 °C
Middle Temperature	500 to 536 °F	260 to 280 °C
Front Temperature	500 to 536 °F	260 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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Technical Data Sheet

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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