



Bergamid™ B70 G50 black

Polyamide 6

Key Characteristics

Product Description

Bergamid B70 G50 black is a Polyamide 6 (Nylon 6) product filled with 50% glass fiber. It can be processed by injection molding.

General

Material Status	• Commercial: Active
Regional Availability	• Europe
Filler / Reinforcement	• Glass Fiber, 50% Filler by Weight
Features	• Halogen Free
RoHS Compliance	• RoHS Compliant
Forms	• Pellets
Processing Method	• Injection Molding

Technical Properties ¹

Physical	Dry	Conditioned	Unit	Test Method
Density / Specific Gravity	1.57	--		DIN 53479
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus				ISO 527-2
73°F (23°C), 0.157 in (4.00 mm), Injection Molded	2.18E+6 (15000)	1.74E+6 (12000)	psi (MPa)	
Tensile Strength (73°F (23°C))	31900 (220)	21800 (150)	psi (MPa)	ISO 527
Tensile Elongation				ISO 527
Break, 73°F (23°C), 0.157 in (4.00 mm)	2.0 to 4.0	3.0 to 5.0	%	
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
73°F (23°C), Injection Molded	6.2 (13)	10 (22)	ft·lb/in ² (kJ/m ²)	
Charpy Unnotched Impact Strength				ISO 179/1eU
73°F (23°C)	38 (80)	41 (86)	ft·lb/in ² (kJ/m ²)	
Flammability	Dry	Conditioned	Unit	Test Method
Burning Rate (0.0630 in (1.60 mm))	< 1.8 (< 45)	--	in/min (mm/min)	FMVSS
Flame Rating (0.13 in (3.2 mm), ALL)	HB	HB		Internal Method

Processing Information

Injection	Dry (English)	Dry (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