



Bergamid™ B70 G25 black

Polyamide 6

Key Characteristics

Product Description	
6016178	
General	
Material Status	• Commercial: Active
Regional Availability	• Europe
Filler / Reinforcement	• Glass Fiber, 25% Filler by Weight
Features	• Good Dimensional Stability • Good Stiffness • Good Surface Finish
RoHS Compliance	• RoHS Compliant
Forms	• Pellets
Processing Method	• Injection Molding

Technical Properties ¹

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density / Specific Gravity ²	1.32	1.32	ISO 1183
Molding Shrinkage ³			ISO 294-4
Across Flow : 73°F (23°C), 0.0787 in (2.00 mm)	0.40 to 0.60 %	0.40 to 0.60 %	
Flow : 73°F (23°C), 0.0787 in (2.00 mm)	0.30 to 0.50 %	0.30 to 0.50 %	
Mechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Modulus			ISO 527-2/1
73°F (23°C), 0.157 in (4.00 mm)	1.16E+6 psi	8000 MPa	
Tensile Strength ⁴			ISO 527-2
73°F (23°C), 0.157 in (4.00 mm)	23200 psi	160 MPa	
Tensile Elongation ⁴			ISO 527-2
Break, 73°F (23°C), 0.157 in (4.00 mm)	3.5 %	3.5 %	
Impact	Typical Value (English)	Typical Value (SI)	Test Method
Charpy Notched Impact Strength			ISO 179
-22°F (-30°C)	4.8 ft·lb/in ²	10 kJ/m ²	
73°F (23°C)	5.7 ft·lb/in ²	12 kJ/m ²	
Charpy Unnotched Impact Strength			ISO 179
-22°F (-30°C)	36 ft·lb/in ²	75 kJ/m ²	
73°F (23°C)	38 ft·lb/in ²	80 kJ/m ²	
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	
Heat Deflection Temperature			ISO 75-2/A
264 psi (1.8 MPa), Unannealed	410 °F	210 °C	
Continuous Use Temperature	-22.0 to 212 °F	-30.0 to 100 °C	
Melting Temperature	433 °F	223 °C	DSC
Electrical	Typical Value (English)	Typical Value (SI)	Test Method
Comparative Tracking Index	500 V	500 V	IEC 60112

Flammability	Typical Value (English)	Typical Value (SI)	Test Method
Flame Rating			UL 94
0.031 in (0.8 mm)	HB	HB	
0.06 in (1.6 mm)	HB	HB	

Processing Information

Injection	Typical Value (English)	Typical Value (SI)
Drying Temperature	176 °F	80 °C
Drying Time	3.0 to 4.0 hr	3.0 to 4.0 hr
Processing (Melt) Temp	464 to 509 °F	240 to 265 °C
Mold Temperature	104 to 176 °F	40 to 80 °C

Notes

¹ Typical values are not to be construed as specifications.

² ±0.03

³ Bergmann method

⁴ 0.20 in/min (5.0 mm/min)