



Bergamid™ B70 G30 H black TM-X

Polyamide 6

Key Characteristics

General			
Material Status	• Commercial: Active		
Regional Availability	• Europe		
Filler / Reinforcement	• Glass Fiber, 30% Filler by Weight		
Features	• Good Stiffness	• Heat Stabilized	• Impact Modified
RoHS Compliance	• RoHS Compliant		
Appearance	• Black		
Forms	• Pellets		
Processing Method	• Injection Molding		

Technical Properties ¹

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density ²	1.34 g/cm ³	1.34 g/cm ³	ISO 1183
Molding Shrinkage - Flow	0.20 to 0.70 %	0.20 to 0.70 %	Internal Method
Mechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Modulus	1.33E+6 psi	9200 MPa	ISO 527
Tensile Stress (Break)	22500 psi	155 MPa	ISO 527
Tensile Strain (Break)	3.5 %	3.5 %	ISO 527
Impact	Typical Value (English)	Typical Value (SI)	Test Method
Charpy Notched Impact Strength (73°F (23°C))	7.1 ft·lb/in ²	15 kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength 73°F (23°C)	40 ft·lb/in ²	85 kJ/m ²	ISO 179/1eU
Hardness	Typical Value (English)	Typical Value (SI)	Test Method
Ball Indentation Hardness	29000 psi	200 MPa	ISO 2039-1
Thermal	Typical Value (English)	Typical Value (SI)	Test Method
Deflection Temperature Under Load 264 psi (1.8 MPa), Unannealed	392 °F	200 °C	ISO 75-2
Flammability	Typical Value (English)	Typical Value (SI)	Test Method
Burning Rate	< 3.9 in/min	< 100 mm/min	ISO 3795
Flame Rating ³ (0.13 in (3.2 mm))	HB	HB	UL 94

Processing Information

Injection	Typical Value (English)	Typical Value (SI)
Drying Temperature	176 °F	80 °C
Drying Time	< 4.0 hr	< 4.0 hr
Suggested Max Moisture	< 0.10 %	< 0.10 %
Processing (Melt) Temp	500 to 554 °F	260 to 290 °C
Mold Temperature	122 to 194 °F	50 to 90 °C

Notes

¹ Typical values are not to be construed as specifications.

² +/-0.02

³ Conform to UL94