



Bergamid™ B70 G25 UF Black

Polyamide 6

Key Characteristics

General			
Material Status	• Commercial: Active		
Regional Availability	• Europe		
Filler / Reinforcement	• Glass Fiber, 25% Filler by Weight		
Features	• Flame Retardant	• Halogen Free	• Low (to None) Phosphorus Content
Uses	• Automotive Applications • Consumer Applications	• General Purpose • Industrial Applications	
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 / Specific Gravity	1.38	1.38	ISO 1183
Mechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Modulus	1.28E+6 psi	8800 MPa	ISO 527-2/1
Tensile Stress	17400 psi	120 MPa	ISO 527-2/5
Tensile Elongation ² (Break)	2.5 %	2.5 %	ISO 527-2
Impact	Typical Value (English)	Typical Value (SI)	Test Method
Charpy Notched Impact Strength	3.3 ft·lb/in ²	7.0 kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength	26 ft·lb/in ²	55 kJ/m ²	ISO 179/1eU
Flammability	Typical Value (English)	Typical Value (SI)	Test Method
Flame Rating (0.06 in (1.6 mm))	V-0	V-0	Internal Method
Glow Wire Flammability Index 0.08 in (2.0 mm)	1760 °F	960 °C	IEC 60695-2-12
Oxygen Index ³	25 %	25 %	ISO 4589-2

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	176 °F	80 °C

Notes

¹ Typical values are not to be construed as specifications.

² 0.20 in/min (5.0 mm/min)

³ Injected plate 3mm