



Bergamid™ B65 G15 Black NT

Polyamide 6

Key Characteristics

Product Description	
Glass fiber reinforced PA6 compound	
General	
Material Status	• Commercial: Active
Regional Availability	• Africa & Middle East • Europe
Filler / Reinforcement	• Glass Fiber, 15% Filler by Weight
Appearance	• Black
Forms	• Pellets
Processing Method	• Injection Molding

Technical Properties ¹

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density	1.19 to 1.23 g/cm ³	1.19 to 1.23 g/cm ³	ISO 1183
Mechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Modulus	725000 psi	5000 MPa	ISO 527-2
Tensile Stress (Break)	> 580 psi	> 4.00 MPa	ISO 527-2
Tensile Stress	16000 psi	110 MPa	ISO 527-2
Flexural Stress	23900 psi	165 MPa	ISO 178
Impact	Typical Value (English)	Typical Value (SI)	Test Method
Charpy Notched Impact Strength (73°F (23°C))	2.4 to 2.9 ft·lb/in ²	5.0 to 6.0 kJ/m ²	ISO 179
Charpy Unnotched Impact Strength 73°F (23°C)	14 to 19 ft·lb/in ²	30 to 40 kJ/m ²	ISO 179
Thermal	Typical Value (English)	Typical Value (SI)	Test Method
Heat Deflection Temperature 66 psi (0.45 MPa), Unannealed	383 °F	195 °C	ISO 75-2/B
Heat Deflection Temperature 264 psi (1.8 MPa), Unannealed	374 °F	190 °C	ISO 75-2/A
Melting Temperature (DSC)	419 to 437 °F	215 to 225 °C	ISO 3146
Flammability	Typical Value (English)	Typical Value (SI)	Test Method
Flame Rating (0.13 in (3.2 mm))	HB	HB	UL 94
FMVSS Burning Speed	< 4 in/min	< 100 mm/min	DIN 75200

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	482 to 536 °F	250 to 280 °C
Mold Temperature	122 to 194 °F	50 to 90 °C

Notes

¹ Typical values are not to be construed as specifications.