

Bergamid™ B70 G30 U grey VN 4954 CF

Polyamide 6

Key Characteristics

General			
Material Status	• Commercial: Active		
Regional Availability	• Europe		
Filler / Reinforcement	• Glass Fiber, 30% Filler by Weight		
Features	• Flame Retardant • Good Hardness	• Good Processability • Good Stiffness	• High Strength
Uses	• Automotive Applications • Consumer Applications	• General Purpose • Household Goods	• Industrial Applications
Appearance	• Natural Color		
Forms	• Pellets		
Processing Method	• Injection Molding		

Technical Properties ¹

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density	1.65 g/cm ³	1.65 g/cm ³	ISO 1183
Mechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Modulus	1.60E+6 psi	11000 MPa	ISO 527-1/1
Tensile Stress	21800 psi	150 MPa	ISO 527-2/5
Tensile Strain (Break)	2.0 %	2.0 %	ISO 527-2/5
Impact	Typical Value (English)	Typical Value (SI)	Test Method
Charpy Notched Impact Strength	4.0 ft·lb/in ²	8.5 kJ/m ²	ISO 179
Charpy Unnotched Impact Strength	21 ft·lb/in ²	45 kJ/m ²	ISO 179
Thermal	Typical Value (English)	Typical Value (SI)	
Melting Temperature	428 to 437 °F	220 to 225 °C	
Flammability	Typical Value (English)	Typical Value (SI)	Test Method
Flame Rating			UL 94
0.03 to 0.12 in (0.8 to 3.0 mm)	V-0	V-0	
Glow Wire Flammability Index			IEC 60695-2-12
0.08 in (2.0 mm)	1760 °F	960 °C	

Processing Information

Injection	Typical Value (English)	Typical Value (SI)
Drying Temperature	176 °F	80 °C
Drying Time	2.0 to 4.0 hr	2.0 to 4.0 hr
Rear Temperature	446 to 464 °F	230 to 240 °C
Middle Temperature	455 to 473 °F	235 to 245 °C
Front Temperature	464 to 482 °F	240 to 250 °C
Nozzle Temperature	482 to 500 °F	250 to 260 °C
Mold Temperature	176 °F	80 °C

Notes

¹ Typical values are not to be construed as specifications.

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