



Bergamid™ B70 G35 H Black SO

Polyamide 6

Key Characteristics

Product Description

Bergamid B70 G35 H is a Polyamide 6 (Nylon 6) product filled with 35% glass fiber. It can be processed by injection molding and its principal features are high heat.

General

Material Status	• Commercial: Active
Regional Availability	• Europe
Filler / Reinforcement	• Glass Fiber, 35% Filler by Weight
Features	• Heat Stabilized
Appearance	• Black
Forms	• Pellets
Processing Method	• Injection Molding

Technical Properties ¹

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density	1.39 to 1.43 g/cm ³	1.39 to 1.43 g/cm ³	ISO 1183
Mechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Modulus	1.45E+6 psi	10000 MPa	ISO 527-2
Tensile Stress	26100 psi	180 MPa	ISO 527-2
Tensile Strain (Break)	3.0 %	3.0 %	ISO 527
Flexural Stress	36300 psi	250 MPa	ISO 178
Impact	Typical Value (English)	Typical Value (SI)	Test Method
Charpy Notched Impact Strength (73°F (23°C))	4.8 ft·lb/in ²	10 kJ/m ²	ISO 179
Charpy Unnotched Impact Strength 73°F (23°C)	36 ft·lb/in ²	75 kJ/m ²	ISO 179
Thermal	Typical Value (English)	Typical Value (SI)	Test Method
Heat Deflection Temperature 66 psi (0.45 MPa), Unannealed	410 °F	210 °C	ISO 75-2/B
Heat Deflection Temperature 264 psi (1.8 MPa), Unannealed	428 °F	220 °C	ISO 75-2/A
Melting Temperature (DSC)	419 to 437 °F	215 to 225 °C	ISO 3146
Maximum Service Temperature			IEC 60216
Continuous	248 °F	120 °C	
Short-term	374 °F	190 °C	
Electrical	Typical Value (English)	Typical Value (SI)	Test Method
Comparative Tracking Index	500 V	500 V	IEC 60112

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	500 to 554 °F	260 to 290 °C
Mold Temperature	122 to 194 °F	50 to 90 °C
Holding Pressure	7250 to 14500 psi	50.0 to 100 MPa