Bergamid™ B65 G30 black IG

Polyamide 6

Key Characteristics

General	
Material Status	• Commercial: Active
Regional Availability	• Europe
Filler / Reinforcement	• Glass Fiber, 30% Filler by Weight
RoHS Compliance	• RoHS Compliant
Forms	• Pellets

Technical Properties [1]

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density [2]	1.36 g/cm³	1.36 g/cm³	DIN 53479
Melt Mass-Flow Rate (MFR) (235°C/2.16 kg)	10 g/10 min	10 g/10 min	ISO 1133
Melt Volume-Flow Rate (MVR) (235°C/2.16 kg)	0.488 in³/10min	8.00 cm³/10min	ISO 1133
Ash Content	30 %	30 %	ISO 3451
Mechanical	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Tensile Modulus (73°F (23°C))	1.20E+6 psi	8300 MPa	ISO 527-2/1
Tensile Stress (Break, 73°F (23°C))	21800 psi	150 MPa	ISO 527-2/5
Tensile Strain (Break, 73°F (23°C))	3.0 %	3.0 %	ISO 527-2/5
Impact	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Charpy Notched Impact Strength (73°F (23°C))	4.8 ft·lb/in²	10 kJ/m²	ISO 179/1eA
Charpy Unnotched Impact Strength			ISO 179/1eU
73°F (23°C)	26 ft·lb/in²	55 kJ/m²	
Thermal	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Heat Deflection Temperature			ISO 75-2/B
66 psi (0.45 MPa), Unannealed	428 °F	220 °C	
Heat Deflection Temperature			ISO 75-2/A
264 psi (1.8 MPa), Unannealed	410 °F	210 °C	
Maximum Use Temperature			IEC 60216
-- [3]	230 °F	110 °C	
Short Time	374 °F	190 °C	
Melting Temperature (DSC)	433 °F	223 °C	ISO 3146
Electrical	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Surface Resistivity	1.0E+13 ohms	1.0E+13 ohms	IEC 93
Volume Resistivity	1.0E+15 ohms·cm	1.0E+15 ohms·cm	IEC 93

Notes

[1] Typical values are not to be construed as specifications.

[2] ±0.03 g/cm³

[3] Continuous (GTP 50% Tensile)

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