Bergamid™ B65 W25 GK10

Polyamide 6

Key Characteristics

General	
Material Status	• Commercial: Active
Regional Availability	• Europe
Filler / Reinforcement	• Glass Bead, 10% Filler by Weight
Features	• Impact Modified
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 [2]	1.18 g/cm³	1.18 g/cm³	DIN 53479
Mechanical	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Tensile Modulus	464000 psi	3200 MPa	ISO 527-2
Tensile Stress (Break)	7980 psi	55.0 MPa	ISO 527-2
Tensile Strain (Break)	4.5 %	4.5 %	ISO 527-2
Impact	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Charpy Notched Impact Strength (73°F (23°C))	2.4 ft·lb/in²	5.0 kJ/m²	ISO 179
Charpy Unnotched Impact Strength			ISO 179
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	347 °F	175 °C	
Heat Deflection Temperature			ISO 75-2/A
264 psi (1.8 MPa), Unannealed	158 °F	70.0 °C	
Maximum Use Temperature			
Continuous (GTP 50% Tensile)	167 °F	75 °C	
Short Time	320 °F	160 °C	
Melting Temperature	433 °F	223 °C	
Electrical	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Surface Resistivity	1.0E+13 ohms	1.0E+13 ohms	IEC 60093
Volume Resistivity	1.0E+15 ohms·cm	1.0E+15 ohms·cm	IEC 60093
Flammability	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Flame Rating			UL 94
0.06 in (1.6 mm)	HB	HB	
0.12 in (3.0 mm)	HB	HB	

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

Injection	Typical Value (English)	Typical Value (SI)
Suggested Max Moisture	< 0.10 %	< 0.10 %
Processing (Melt) Temp	500 to 554 °F	260 to 290 °C
Mold Temperature	122 to 194 °F	50 to 90 °C

Notes

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

[2] ±0.03 g/cm³

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