Bergamid™ B70 G15 H TM-Z UV SO6

Polyamide 6

Key Characteristics

General		
Material Status	• Commercial: Active	
Regional Availability	• Africa & Middle East • Asia Pacific	• Europe • North America
Filler / Reinforcement	• Glass Fiber, 15% Filler by Weight	
Features	• Good Color Stability • Good UV Resistance	• High Heat Resistance • High Impact Resistance
RoHS Compliance	• RoHS Compliant	
Forms	• Pellets	

Technical Properties [1]

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density [2] (73°F (23°C))	1.17 g/cm³	1.17 g/cm³	DIN 53479
Melt Mass-Flow Rate (MFR) (235°C/2.16 kg)	> 6.0 g/10 min	> 6.0 g/10 min	ISO 1133
Melt Volume-Flow Rate (MVR) (235°C/2.16 kg)	> 0.305 in³/10min	> 5.00 cm³/10min	ISO 1133
Ash Content	15 %	15 %	ISO 3451
Mechanical	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Tensile Modulus			ISO 527-2/1
73°F (23°C), 0.157 in (4.00 mm)	783000 psi	5400 MPa	
Tensile Stress			ISO 527-2/5
Break, 73°F (23°C), 0.157 in (4.00 mm)	14500 psi	100 MPa	
Tensile Strain			ISO 527-2/5
Break, 73°F (23°C), 0.157 in (4.00 mm)	> 4.0 %	> 4.0 %	
Impact	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Charpy Notched Impact Strength (73°F (23°C))	> 8.1 ft·lb/in²	> 17 kJ/m²	ISO 179/1eA
Charpy Unnotched Impact Strength			ISO 179/1eU
73°F (23°C)	36 ft·lb/in²	75 kJ/m²	
Thermal	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Heat Deflection Temperature			ISO 75-2/B
66 psi (0.45 MPa), Unannealed	401 °F	205 °C	
Maximum Use Temperature			IEC 60216
-- [3]	203 °F	95 °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+12 ohms	1.0E+12 ohms	IEC 60093
Volume Resistivity	1.0E+13 ohms·cm	1.0E+13 ohms·cm	IEC 60093

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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