Bergamid™ A70 G25 U-SO TM

Polyamide 66

Key Characteristics

General		
Material Status	• Commercial: Active	
Regional Availability	• Europe	
Filler / Reinforcement	• Glass Fiber, 25% Filler by Weight	
Additive	• Heat Stabilizer	
Features	• Flame Retardant • Halogen Free	• Heat Stabilized • 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))	1.40 g/cm³	1.40 g/cm³	DIN 53479
Ash Content	> 25 %	> 25 %	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), Injection Molded	1.16E+6 psi	8000 MPa	
Tensile Stress			ISO 527-2/5
Break, 73°F (23°C), 0.157 in (4.00 mm), Injection Molded	18100 psi	125 MPa	
Tensile Strain (Break, 73°F (23°C))	> 2.0 %	> 2.0 %	ISO 527-2/5
Impact	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Charpy Notched Impact Strength (73°F (23°C))	3.3 ft·lb/in²	7.0 kJ/m²	ISO 179/1eA
Charpy Unnotched Impact Strength			ISO 179/1eA
-22°F (-30°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	482 °F	250 °C	
Maximum Use Temperature			IEC 60216
-- [3]	248 °F	120 °C	
Short Time	428 °F	220 °C	
Melting Temperature (DSC)	502 °F	261 °C	ISO 3146
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
Comparative Tracking Index (Solution A)	> 400 V	> 400 V	IEC 60112
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), ALL	V-0	V-0	
Glow Wire Flammability Index			IEC 60695-2-12
0.03 to 0.12 in (0.8 to 3.0 mm)	1760 °F	960 °C	

Flammability	Typical Value (English)	Typical Value (SI)	Test Method
Glow Wire Ignition Temperature			IEC 60695-2-13
0.06 in (1.6 mm)	1380 °F	750 °C	
0.12 in (3.0 mm)	1430 °F	775 °C	

Notes

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

[2] ±0.03 g/cm³

[3] Continuous (GTP 50% Tensile)