Bergamid™ B70 UF Natural SO

Polyamide 6

Key Characteristics

General		
Material Status	• Commercial: Active	
Regional Availability	• Africa & Middle East	• Europe
Additive	• Flame Retardant	
Features	• Halogen Free	• Heat Stabilized
RoHS Compliance	• RoHS Compliant	
Appearance	• Natural Color	
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
Melt Mass-Flow Rate (MFR) (275°C/2.16 kg)	20 g/10 min	20 g/10 min	ISO 1133
Mechanical	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Tensile Modulus (73°F (23°C))	479000 psi	3300 MPa	ISO 527-2/1
Tensile Stress (Break)	10200 psi	70.0 MPa	ISO 527-2
Flexural Modulus	435000 psi	3000 MPa	ISO 178
Flexural Stress	14500 psi	100 MPa	ISO 178
Impact	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Charpy Notched Impact Strength	1.7 ft·lb/in²	3.5 kJ/m²	ISO 179
Charpy Unnotched Impact Strength			ISO 179
73°F (23°C)	31 ft·lb/in²	65 kJ/m²	
Thermal	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Heat Deflection Temperature			ISO 75-2/B
66 psi (0.45 MPa), Unannealed	365 °F	185 °C	
Melting Temperature (DSC)	433 °F	223 °C	ISO 3146
Electrical	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Comparative Tracking Index	> 400 V	> 400 V	IEC 60112
Flammability	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Flame Rating			UL 94
0.031 in (0.8 mm)	V-0	V-0	
0.06 in (1.6 mm)	V-0	V-0	
Glow Wire Flammability Index	1760 °F	960 °C	IEC 60695-2-12
Flammability	< 4 in/min	< 100 mm/min	FMVSS

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	446 to 491 °F	230 to 255 °C
Mold Temperature	86 to 158 °F	30 to 70 °C

Notes

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

[2] ±0.02 g/cm³