



Bergamid™ B70 NATURAL 004

Polyamide 6

Key Characteristics

Product Description	
Internal Code:6000204	
General	
Material Status	• Commercial: Active
Regional Availability	• Asia Pacific • Europe
Features	• Halogen Free
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 / Specific Gravity	1.13	1.13	ISO 1183
Molding Shrinkage - Flow	8.0E-3 to 0.011 in/in	0.80 to 1.1 %	ASTM D955
Viscosity Number	125 to 155 cm ³ /g	125 to 155 cm ³ /g	ISO 307
Mechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Modulus	479000 psi	3300 MPa	ISO 527-2/1
Tensile Strength ²			ISO 527
73°F (23°C), 0.157 in (4.00 mm)	12300 psi	85.0 MPa	
Tensile Elongation ²			ISO 527
Break, 73°F (23°C), 0.157 in (4.00 mm)	10 to 50 %	10 to 50 %	
Flexural Modulus	406000 psi	2800 MPa	ISO 178
Impact	Typical Value (English)	Typical Value (SI)	Test Method
Charpy Notched Impact Strength			
-22°F (-30°C)	2.1 ft·lb/in ²	4.5 kJ/m ²	ISO 179/1eA
73°F (23°C)	2.4 ft·lb/in ²	5.0 kJ/m ²	ISO 179
Charpy Unnotched Impact Strength			ISO 179
-22°F (-30°C)	150 ft·lb/in ²	320 kJ/m ²	
73°F (23°C)	No Break	No Break	
Thermal	Typical Value (English)	Typical Value (SI)	Test Method
Deflection Temperature Under Load			ISO 75-2
66 psi (0.45 MPa), Unannealed	369 °F	187 °C	
Deflection Temperature Under Load			ISO 75-2
264 psi (1.8 MPa), Unannealed	149 °F	65.0 °C	
Electrical	Typical Value (English)	Typical Value (SI)	Test Method
Surface Resistivity	1.0E+15 ohms	1.0E+15 ohms	ASTM D257
Volume Resistivity	1.0E+15 ohms·cm	1.0E+15 ohms·cm	ASTM D257
Flammability	Typical Value (English)	Typical Value (SI)	Test Method
Flame Rating (0.06 in (1.5 mm), ALL)	V-2	V-2	Internal Method
Glow Wire Flammability Index			IEC 60695-2-12
0.06 in (1.5 mm)	1560 °F	850 °C	
Glow Wire Ignition Temperature			IEC 60695-2-13
0.06 in (1.5 mm)	1290 °F	700 °C	

Processing Information

Injection	Typical Value (English)	Typical Value (SI)
Drying Temperature	176 to 194 °F	80 to 90 °C
Drying Time	2.0 to 4.0 hr	2.0 to 4.0 hr
Processing (Melt) Temp	464 to 536 °F	240 to 280 °C
Mold Temperature	140 to 194 °F	60 to 90 °C

Notes

¹ Typical values are not to be construed as specifications.

² 2.0 in/min (50 mm/min)