



Bergamid™ B70 L natural FD

Polyamide 6

Key Characteristics

General			
Material Status	• Commercial: Active		
Regional Availability	• Africa & Middle East	• Asia Pacific	• Europe
RoHS Compliance	• RoHS Compliant		
Forms	• Pellets		

Technical Properties ¹

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density ² (73°F (23°C))	1.13 g/cm ³	1.13 g/cm ³	DIN 53479
K-Value ³	74.0 to 78.0	74.0 to 78.0	
Mechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Modulus 73°F (23°C), 0.157 in (4.00 mm), Injection Molded	435000 psi	3000 MPa	ISO 527-2/1
Tensile Stress Yield, 73°F (23°C), 0.157 in (4.00 mm)	11600 psi	80.0 MPa	ISO 527-2/50
Tensile Strain Yield, 73°F (23°C), 0.157 in (4.00 mm), Injection Molded	4.0 %	4.0 %	ISO 527-2/50
Tensile Strain Break, 73°F (23°C), 0.157 in (4.00 mm), Injection Molded	> 20 %	> 20 %	ISO 527-2/50
Flexural Modulus	319000 psi	2200 MPa	ISO 178
Flexural Stress	10900 psi	75.0 MPa	ISO 178
Impact	Typical Value (English)	Typical Value (SI)	Test Method
Charpy Notched Impact Strength (73°F (23°C))	1.9 to 2.9 ft·lb/in ²	4.0 to 6.0 kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength -22°F (-30°C)	No Break	No Break	ISO 179/1eU
73°F (23°C)	No Break	No Break	
Thermal	Typical Value (English)	Typical Value (SI)	Test Method
Maximum Use Temperature -- ⁴	167 °F	75 °C	IEC 60216
Short Time	347 °F	175 °C	
Melting Temperature (DSC)	433 °F	223 °C	ISO 3146
Electrical	Typical Value (English)	Typical Value (SI)	Test Method
Surface Resistivity	1.0E+14 ohms	1.0E+14 ohms	IEC 60093
Volume Resistivity	1.0E+15 ohms·cm	1.0E+15 ohms·cm	IEC 60093

Notes

¹ Typical values are not to be construed as specifications.

² ±0.01 g/cm³

³ 96% H₂SO₄

⁴ Continuous (GTP 50% Tensile)