

Bergamid™ B70 S natural FD

Polyamide 6

Key Characteristics

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

Technical Properties ¹

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density ²	1.13 g/cm ³	1.13 g/cm ³	DIN 53479
Molding Shrinkage - Flow ³ 73°F (23°C), 0.157 in (4.00 mm)	1.2 to 1.8 %	1.2 to 1.8 %	Internal Method
K-Value ⁴	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))	160000 psi	1100 MPa	ISO 527-1/1
Tensile Stress (Yield, 73°F (23°C))	7250 psi	50.0 MPa	ISO 527-2/50
Tensile Strain (Yield)	4.0 %	4.0 %	ISO 527-2
Tensile Strain (Break)	> 10 %	> 10 %	ISO 527-2
Impact	Typical Value (English)	Typical Value (SI)	Test Method
Charpy Notched Impact Strength -22°F (-30°C) 73°F (23°C)	5.0 ft·lb/in ² 60 ft·lb/in ²	11 kJ/m ² 130 kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength -22°F (-30°C) 73°F (23°C)	No Break No Break	No Break No Break	ISO 179/1eU
Thermal	Typical Value (English)	Typical Value (SI)	Test Method
Deflection Temperature Under Load 66 psi (0.45 MPa), Unannealed	338 °F	170 °C	ISO 75-2/B
Deflection Temperature Under Load 264 psi (1.8 MPa), Unannealed	149 °F	65.0 °C	ISO 75-2/A
Maximum Use Temperature -- ⁵	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+13 ohms	1.0E+13 ohms	IEC 60093
Volume Resistivity	1.0E+15 ohms·cm	1.0E+15 ohms·cm	IEC 60093
Relative Permittivity (1 MHz)	7.00	7.00	IEC 60250
Dissipation Factor (1 MHz)	0.30	0.30	IEC 60250
Comparative Tracking Index (Solution A)	600 V	600 V	IEC 60112

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Notes

¹ Typical values are not to be construed as specifications.

² ±0.03 g/cm³

³ PolyOne Method

⁴ 96% H₂SO₄

⁵ Continuous (GTP 50% Tensile)

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