



Bergamid™ B70 L Black FD

Polyamide 6

Key Characteristics

General			
Material Status	• Commercial: Active		
Regional Availability	• Africa & Middle East	• Asia Pacific	• Europe
RoHS Compliance	• RoHS Compliant		
Appearance	• Black		
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			ISO 527-2/1
73°F (23°C), 0.157 in (4.00 mm), Injection Molded	406000 psi	2800 MPa	
Tensile Stress			ISO 527-2
Break, 73°F (23°C), 0.157 in (4.00 mm), Injection Molded	11600 psi	80.0 MPa	
Tensile Strain			ISO 527-2/50
Break, 73°F (23°C), 0.157 in (4.00 mm), Injection Molded	> 20 %	> 20 %	
Impact	Typical Value (English)	Typical Value (SI)	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-22°F (-30°C)	0.95 to 1.9 ft·lb/in ²	2.0 to 4.0 kJ/m ²	
73°F (23°C)	2.4 to 4.8 ft·lb/in ²	5.0 to 10 kJ/m ²	
Charpy Unnotched Impact Strength			ISO 179/1eU
-22°F (-30°C)	19 to 29 ft·lb/in ²	40 to 60 kJ/m ²	
73°F (23°C)	33 to 48 ft·lb/in ²	70 to 100 kJ/m ²	
Thermal	Typical Value (English)	Typical Value (SI)	Test Method
Maximum Use Temperature			IEC 60216
-- ⁴	167 °F	75 °C	
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)