



Bergamid™ B750 L Black

Polyamide 6

Key Characteristics

General			
Material Status	• Commercial: Active		
Regional Availability	• Africa & Middle East	• Asia Pacific	• Europe
Features	• Impact Modified		
Appearance	• Black		
Forms	• Pellets		

Technical Properties ¹

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density	1.06 to 1.10 g/cm ³	1.06 to 1.10 g/cm ³	ISO 1183
K-Value ²	76.0 to 82.0	76.0 to 82.0	
Mechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Modulus	290000 psi	2000 MPa	ISO 527-2
Tensile Stress	7250 psi	50.0 MPa	ISO 527-2
Tensile Strain (Break)	30 %	30 %	ISO 527-2
Flexural Stress	10200 psi	70.0 MPa	ISO 178
Impact	Typical Value (English)	Typical Value (SI)	Test Method
Charpy Notched Impact Strength (73°F (23°C))	21 ft·lb/in ²	45 kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength 73°F (23°C)	No Break	No Break	ISO 179/1eU
Thermal	Typical Value (English)	Typical Value (SI)	Test Method
Heat Deflection Temperature 66 psi (0.45 MPa), Unannealed	320 °F	160 °C	ISO 75-2/B
Heat Deflection Temperature 264 psi (1.8 MPa), Unannealed	176 °F	80.0 °C	ISO 75-2/A
Maximum Use Temperature			IEC 60216
Continuous	194 to 212 °F	90 to 100 °C	
Short Time	356 to 374 °F	180 to 190 °C	
Melting Temperature (DSC)	428 °F	220 °C	ISO 3146
Electrical	Typical Value (English)	Typical Value (SI)	Test Method
Comparative Tracking Index	500 V	500 V	IEC 60112
Flammability	Typical Value (English)	Typical Value (SI)	Test Method
Flame Rating 0.06 to 0.12 in (1.5 to 3.0 mm)	HB	HB	UL 94
FMVSS Flammability	< 3.9 in/min	< 100 mm/min	DIN 75200

Processing Information

Injection	Typical Value (English)	Typical Value (SI)
Drying Temperature	176 °F	80 °C
Drying Time	4.0 hr	4.0 hr
Processing (Melt) Temp	482 to 536 °F	250 to 280 °C
Mold Temperature	104 to 176 °F	40 to 80 °C
Holding Pressure	7250 to 14500 psi	50.0 to 100 MPa

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Notes

¹ Typical values are not to be construed as specifications.

² 96% H₂SO₄

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