



Bergamid™ B85 Natural 003 FD

Polyamide 6

Key Characteristics

General	
Material Status	• Commercial: Active
Regional Availability	• Europe
Features	• High Viscosity
Forms	• Pellets

Technical Properties ¹

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density	1.11 to 1.15 g/cm ³	1.11 to 1.15 g/cm ³	ISO 1183
Viscosity Number	205 to 260 cm ³ /g	205 to 260 cm ³ /g	ISO 307
Mechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Modulus	421000 psi	2900 MPa	ISO 527-2
Tensile Stress (Yield)	12300 psi	85.0 MPa	ISO 527-2
Tensile Strain (Yield)	4.0 %	4.0 %	ISO 527-2
Tensile Strain (Break)	20 %	20 %	ISO 527-2
Flexural Stress	14500 psi	100 MPa	ISO 178
Impact	Typical Value (English)	Typical Value (SI)	Test Method
Charpy Notched Impact Strength (73°F (23°C))	3.3 ft·lb/in ²	7.0 kJ/m ²	ISO 179
Charpy Unnotched Impact Strength 73°F (23°C)	No Break	No Break	ISO 179
Thermal	Typical Value (English)	Typical Value (SI)	Test Method
Heat Deflection Temperature 66 psi (0.45 MPa), Unannealed	338 °F	170 °C	ISO 75-2/B
Heat Deflection Temperature 264 psi (1.8 MPa), Unannealed	158 °F	70.0 °C	ISO 75-2/A
Melting Temperature (DSC)	419 to 437 °F	215 to 225 °C	ISO 3146
Electrical	Typical Value (English)	Typical Value (SI)	Test Method
Comparative Tracking Index	600 V	600 V	IEC 60112
Flammability	Typical Value (English)	Typical Value (SI)	Test Method
Flame Rating (0.13 in (3.2 mm))	HB	HB	UL 94

Processing Information

Injection	Typical Value (English)	Typical Value (SI)
Drying Temperature	176 °F	80 °C
Drying Time	3.0 to 4.0 hr	3.0 to 4.0 hr
Processing (Melt) Temp	482 to 536 °F	250 to 280 °C
Mold Temperature	104 to 176 °F	40 to 80 °C

Notes

¹ Typical values are not to be construed as specifications.

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