



Bergamid™ B80 Natural TSM1

Polyamide 6

Key Characteristics

General		
Material Status	• Commercial: Active	
Regional Availability	• Africa & Middle East • Asia Pacific	• Europe • North America
Features	• High Impact Resistance	• High Viscosity
RoHS Compliance	• RoHS Compliant	
Appearance	• Natural Color	
Forms	• Pellets	
Processing Method	• Extrusion	• Injection Molding

Technical Properties ¹

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density ²	1.07 to 1.11 g/cm ³	1.07 to 1.11 g/cm ³	ISO 1183
K-Value	89.0 to 95.0	89.0 to 95.0	ISO 1628-2
Mechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Modulus	65300 to 79800 psi	450 to 550 MPa	ISO 527-2
Tensile Stress (Break)	5080 to 7250 psi	35.0 to 50.0 MPa	ISO 527-2
Tensile Strain (Break)	> 100 %	> 100 %	ISO 527-2
Flexural Stress	4060 psi	28.0 MPa	ISO 178
Impact	Typical Value (English)	Typical Value (SI)	Test Method
Charpy Notched Impact Strength	No Break	No Break	ISO 179
Charpy Unnotched Impact Strength	No Break	No Break	ISO 179
Thermal	Typical Value (English)	Typical Value (SI)	Test Method
Heat Deflection Temperature 264 psi (1.8 MPa), Unannealed	122 °F	50.0 °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

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

Notes

¹ Typical values are not to be construed as specifications.

² +/-0.02