Bergamid™ B80 Natural TSM1 SO

Polyamide 6

Key Characteristics

General		
Material Status	• Commercial: Active	
Regional Availability	• Africa & Middle East	• Europe
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	1.07 to 1.11 g/cm³	1.07 to 1.11 g/cm³	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	115000 psi	790 MPa	ISO 527-2
Tensile Stress (Break)	6530 psi	45.0 MPa	ISO 527-2
Tensile Strain (Break)	200 %	200 %	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 (73°F (23°C))	40 ft·lb/in²	85 kJ/m²	ISO 179/1eA
Charpy Unnotched Impact Strength			ISO 179/1eU
73°F (23°C)	No Break	No Break	
Thermal	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Melting Temperature (DSC)	419 to 437 °F	215 to 225 °C	ISO 3146

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.

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Beyond Polymers.

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