Bergamid™ B70 MI40 TM-XF Natural SO2

Polyamide 6

Key Characteristics

General		
Material Status	• Commercial: Active	
Regional Availability	• Africa & Middle East	• Europe
Filler / Reinforcement	• Mineral, 40% Filler by Weight	
Features	• Filled • Good Stiffness	• Good Strength • Impact Modified
Appearance	• Grey	
Forms	• Pellets	
Processing Method	• Injection Molding	

Technical Properties [1]

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density [2]	1.44 g/cm³	1.44 g/cm³	ISO 1183
Mechanical	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Tensile Modulus	1.04E+6 psi	7200 MPa	ISO 527-2
Tensile Stress	13100 psi	90.0 MPa	ISO 527-2
Tensile Strain (Break)	> 6.0 %	> 6.0 %	ISO 527-2
Flexural Stress	18100 psi	125 MPa	ISO 178
Impact	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Notched Izod Impact Strength	3.3 ft·lb/in²	7.0 kJ/m²	ISO 180
Unnotched Izod Impact Strength	No Break	No Break	ISO 180
Thermal	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Heat Deflection Temperature			ISO 75-2/B
66 psi (0.45 MPa), Unannealed	> 392 °F	> 200 °C	
Heat Deflection Temperature			ISO 75-2/A
264 psi (1.8 MPa), Unannealed	> 248 °F	> 120 °C	
Melting Temperature (DSC)	419 to 437 °F	215 to 225 °C	ISO 3146
Flammability	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Flame Rating (0.12 in (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	3.0 to 4.0 hr	3.0 to 4.0 hr
Processing (Melt) Temp	500 to 554 °F	260 to 290 °C
Mold Temperature	122 to 194 °F	50 to 90 °C

Notes

[1] Typical values are not to be construed as specifications.

[2] +/- 0.02