Bergamid™ B70 G20 Natural

Polyamide 6

Key Characteristics

Product Description		
Glass fiber reinforced PA6 compound		
General		
Material Status	• Commercial: Active	
Regional Availability	• Africa & Middle East	• Europe
Filler / Reinforcement	• Glass Fiber, 20% Filler by Weight	
Processing Method	• Injection Molding	

Technical Properties [1]

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density	1.26 to 1.30 g/cm³	1.26 to 1.30 g/cm³	ISO 1183
Mechanical	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Tensile Modulus	1.02E+6 psi	7000 MPa	ISO 527-2
Tensile Stress (Break)	21800 psi	150 MPa	ISO 527-2
Tensile Strain (Break)	3.5 %	3.5 %	ISO 527-2
Impact	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Charpy Notched Impact Strength (73°F (23°C))	4.8 ft·lb/in²	10 kJ/m²	ISO 179
Charpy Unnotched Impact Strength			ISO 179
73°F (23°C)	33 ft·lb/in²	70 kJ/m²	
Thermal	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Heat Deflection Temperature			ISO 75-2/B
66 psi (0.45 MPa), Unannealed	428 °F	220 °C	
Heat Deflection Temperature			ISO 75-2/A
264 psi (1.8 MPa), Unannealed	392 °F	200 °C	
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	500 V	500 V	IEC 60112
Flammability	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Flame Rating (0.13 in (3.2 mm))	HB	HB	Internal Method

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	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.