Bergamid™ B70 G25 black

Polyamide 6

Key Characteristics

Product Description			
6016178			
General			
Material Status	• Commercial: Active		
Regional Availability	• Europe		
Filler / Reinforcement	• Glass Fiber, 25% Filler by Weight		
Features	• Good Dimensional Stability	• Good Stiffness	• Good Surface Finish
RoHS Compliance	• RoHS Compliant		
Forms	• Pellets		
Processing Method	• Injection Molding		

Technical Properties [1]

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density / Specific Gravity [2]	1.32	1.32	ISO 1183
Molding Shrinkage [3]			ISO 294-4
Across Flow : 73°F (23°C), 0.0787 in (2.00 mm)	0.40 to 0.60 %	0.40 to 0.60 %	
Flow : 73°F (23°C), 0.0787 in (2.00 mm)	0.30 to 0.50 %	0.30 to 0.50 %	
Mechanical	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Tensile Modulus			ISO 527-2/1
73°F (23°C), 0.157 in (4.00 mm)	1.16E+6 psi	8000 MPa	
Tensile Strength [4]			ISO 527-2
73°F (23°C), 0.157 in (4.00 mm)	23200 psi	160 MPa	
Tensile Elongation [4]			ISO 527-2
Break, 73°F (23°C), 0.157 in (4.00 mm)	3.5 %	3.5 %	
Impact	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Charpy Notched Impact Strength			ISO 179
-22°F (-30°C)	4.8 ft·lb/in²	10 kJ/m²	
73°F (23°C)	5.7 ft·lb/in²	12 kJ/m²	
Charpy Unnotched Impact Strength			ISO 179
-22°F (-30°C)	36 ft·lb/in²	75 kJ/m²	
73°F (23°C)	38 ft·lb/in²	80 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	410 °F	210 °C	
Continuous Use Temperature	-22.0 to 212 °F	-30.0 to 100 °C	
Melting Temperature	433 °F	223 °C	DSC
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			UL 94
0.031 in (0.8 mm)	HB	HB	
0.06 in (1.6 mm)	HB	HB	

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	464 to 509 °F	240 to 265 °C
Mold Temperature	104 to 176 °F	40 to 80 °C

Notes

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

[2] ±0.03

[3] Bergmann method

[4] 0.20 in/min (5.0 mm/min)

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