Bergamid™ A70 G15 black VN4255CF LS TM-Z

Polyamide 66

Key Characteristics

General			
Material Status	• Commercial: Active		
Regional Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Filler / Reinforcement	• Glass Fiber, 15% Filler by Weight		
Additive	• Impact Modifier		
Features	• Laser Markable		
Forms	• Granules		

Technical Properties [1]

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density [2] (73°F (23°C))	1.21 g/cm³	1.21 g/cm³	ISO 1183
Molding Shrinkage - Flow [3]			ASTM D955
73°F (23°C), 0.157 in (4.00 mm)	3.0E-3 to 7.0E-3 in/in	0.30 to 0.70 %	
Mechanical	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Tensile Modulus (73°F (23°C))	783000 psi	5400 MPa	ISO 527-2/1
Tensile Stress (Break, 73°F (23°C))	16000 psi	110 MPa	ISO 527-2
Tensile Strain (Break, 73°F (23°C))	> 5.0 %	> 5.0 %	ISO 527-2
Flexural Modulus (73°F (23°C))	580000 psi	4000 MPa	ISO 178
Flexural Stress (73°F (23°C))	18400 psi	127 MPa	ISO 178
Impact	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Charpy Notched Impact Strength			ISO 179
-22°F (-30°C)	2.1 ft·lb/in²	4.5 kJ/m²	
73°F (23°C)	6.7 ft·lb/in²	14 kJ/m²	
Charpy Unnotched Impact Strength			ISO 179
-22°F (-30°C)	33 ft·lb/in²	69 kJ/m²	
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	493 °F	256 °C	
Heat Deflection Temperature			ISO 75-2/A
264 psi (1.8 MPa), Unannealed	457 °F	236 °C	
Melting Temperature (DSC)	502 °F	261 °C	ISO 3146
Electrical	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Surface Resistivity	1.0E+13 ohms	1.0E+13 ohms	IEC 60093
Volume Resistivity	1.0E+15 ohms·cm	1.0E+15 ohms·cm	IEC 60093

Processing Information

Injection	Typical Value (English)	Typical Value (SI)
Drying Temperature	176 °F	80 °C
Drying Time	4.0 hr	4.0 hr
Rear Temperature	518 °F	270 °C
Middle Temperature	536 °F	280 °C

Injection	Typical Value (English)	Typical Value (SI)
Front Temperature	554 °F	290 °C
Nozzle Temperature	572 °F	300 °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

[3] Bergmann method