Bergamid™ A70 G15 H Black

Polyamide 66

Key Characteristics

Product Description	
Bergamid A70 G15 H Black is a Polyamide 66 (Nylon 66) product filled with 15% glass fiber and heat stabilized. It can be processed by injection molding.	
General	
Material Status	• Commercial: Active
Regional Availability	• Europe
Filler / Reinforcement	• Glass Fiber, 15% Filler by Weight
Features	• Heat Stabilized
Appearance	• Black
Forms	• Pellets
Processing Method	• Injection Molding

Technical Properties [1]

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density [2]	1.23 g/cm³	1.23 g/cm³	ISO 1183
Mechanical	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Tensile Modulus	870000 psi	6000 MPa	ISO 527-2
Tensile Strength	18900 psi	130 MPa	ISO 527
Tensile Strain (Break)	3.0 %	3.0 %	ISO 527
Flexural Strength	26100 psi	180 MPa	ISO 178
Impact	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Charpy Notched Impact Strength (73°F (23°C))	2.9 ft·lb/in²	6.0 kJ/m²	ISO 179
Charpy Unnotched Impact Strength			ISO 179
73°F (23°C)	14 ft·lb/in²	30 kJ/m²	
Thermal	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Heat Deflection Temperature			ISO 75-2/B
66 psi (0.45 MPa), Unannealed	473 °F	245 °C	
Heat Deflection Temperature			ISO 75-2/A
264 psi (1.8 MPa), Unannealed	473 °F	245 °C	
Continuous Use Temperature	248 °F	120 °C	IEC 60216
Melting Temperature (DSC)	491 to 509 °F	255 to 265 °C	ISO 3146
Electrical	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Surface Resistivity	1.0E+14 ohms	1.0E+14 ohms	IEC 60093
Volume Resistivity	1.0E+16 ohms·cm	1.0E+16 ohms·cm	IEC 60093
Comparative Tracking Index	500 V	500 V	IEC 60112
Flammability	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Flame Rating	HB	HB	UL 94
Additional Information	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Short Time Use Temperature	374 °F	190 °C	IEC 60216

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	536 to 572 °F	280 to 300 °C
Mold Temperature	122 to 194 °F	50 to 90 °C
Holding Pressure	7250 to 14500 psi	50.0 to 100 MPa

Notes

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

[2] ±0,02