



Bergamid™ A700 G20 H WUF BK059

Polyamide 66

Key Characteristics

Product Description

Halogen and Red Phosphorus free, Ultrahigh heat resistance

General

Material Status	• Commercial: Active
Regional Availability	• Asia Pacific
Filler / Reinforcement	• Glass Fiber, 20% Filler by Weight
Features	• Halogen Free • High Heat Resistance • Low (to None) Phosphorus Content
Appearance	• Black
Processing Method	• Injection Molding

Technical Properties ¹

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density	1.36 g/cm ³	1.36 g/cm ³	ISO 1183
Molding Shrinkage	0.50 to 0.80 %	0.50 to 0.80 %	ASTM D955
Mechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Stress	17400 psi	120 MPa	ISO 527-2/5
Flexural Modulus ²	1.23E+6 psi	8500 MPa	ISO 178
Flexural Stress ²	29000 psi	200 MPa	ISO 178
Impact	Typical Value (English)	Typical Value (SI)	Test Method
Charpy Notched Impact Strength	3.1 ft·lb/in ²	6.5 kJ/m ²	ISO 179
Thermal	Typical Value (English)	Typical Value (SI)	Test Method
Heat Deflection Temperature ³			ISO 75-2/A
264 psi (1.8 MPa), Unannealed	455 °F	235 °C	
Electrical	Typical Value (English)	Typical Value (SI)	Test Method
Surface Resistivity	1.0E+15 ohms	1.0E+15 ohms	ASTM D257
Flammability	Typical Value (English)	Typical Value (SI)	Test Method
Flame Rating (0.06 in (1.6 mm))	V-0	V-0	Internal Method

Processing Information

Injection	Typical Value (English)	Typical Value (SI)
Drying Temperature	176 to 194 °F	80.0 to 90.0 °C
Drying Time	4.0 to 6.0 hr	4.0 to 6.0 hr
Rear Temperature	500 to 536 °F	260 to 280 °C
Middle Temperature	500 to 536 °F	260 to 280 °C
Front Temperature	500 to 536 °F	260 to 280 °C
Mold Temperature	149 to 185 °F	65.0 to 85.0 °C

Injection Notes

Injection Pressure: MED-HIGH
Hold Pressure: MED-HIGH
Screw Speed: MODERATE
Back Pressure: LOW

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Notes¹ Typical values are not to be construed as specifications.² 0.079 in/min (2.0 mm/min)³ 3.2mm thickness**CONTACT INFORMATION****Americas**United States - Avon Lake
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