

Bergamid™ A700 G20 HW UF black VN8012 CF LS

Polyamide 66

Key Characteristics

General			
Material Status	• Commercial: Active		
Regional Availability	• Africa & Middle East • Asia Pacific	• Europe • North America	
Filler / Reinforcement	• Glass Fiber, 20% Filler by Weight		
Features	• Flame Retardant • Halogen Free	• Heat Stabilized • Hydrolysis Resistant	• UV Laser Markable
Appearance	• Black		
Forms	• Pellets		

Technical Properties ¹

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density	1.34 g/cm ³	1.34 g/cm ³	ISO 1183
K-Value	73.0 to 76.0	73.0 to 76.0	ISO 1628-2
Mechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Modulus			ISO 527-1
73°F (23°C), 0.157 in (4.00 mm)	1.12E+6 psi	7700 MPa	
Tensile Stress (Break)	15200 psi	105 MPa	ISO 527-2
Tensile Strain			ISO 527-2
Break, 73°F (23°C), 0.157 in (4.00 mm)	2.0 to 4.0 %	2.0 to 4.0 %	
Impact	Typical Value (English)	Typical Value (SI)	Test Method
Charpy Notched Impact Strength (73°F (23°C))	2.4 ft·lb/in ²	5.0 kJ/m ²	ISO 179
Charpy Unnotched Impact Strength (73°F (23°C))	17 ft·lb/in ²	35 kJ/m ²	ISO 179
Thermal	Typical Value (English)	Typical Value (SI)	Test Method
RTI Elec			UL 746B
0.030 in (0.75 mm)	257 °F	125 °C	
0.06 in (1.5 mm)	257 °F	125 °C	
0.12 in (3.0 mm)	257 °F	125 °C	
RTI Imp			UL 746B
0.030 in (0.75 mm)	212 °F	100 °C	
0.06 in (1.5 mm)	230 °F	110 °C	
0.12 in (3.0 mm)	248 °F	120 °C	
RTI Str			UL 746B
0.030 in (0.75 mm)	221 °F	105 °C	
0.06 in (1.5 mm)	239 °F	115 °C	
0.12 in (3.0 mm)	257 °F	125 °C	

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UF black VN8012 CE LS

Technical Data Sheet

Electrical	Typical Value (English)	Typical Value (SI)	Test Method
Comparative Tracking Index (CTI)	PLC 1	PLC 1	UL 746A
High Amp Arc Ignition (HAI)			UL 746A
0.030 in (0.75 mm)	PLC 0	PLC 0	
0.06 in (1.5 mm)	PLC 0	PLC 0	
0.12 in (3.0 mm)	PLC 0	PLC 0	
Hot-wire Ignition (HWI)			UL 746A
0.030 in (0.75 mm)	PLC 0	PLC 0	
0.06 in (1.5 mm)	PLC 0	PLC 0	
0.12 in (3.0 mm)	PLC 0	PLC 0	
Flammability	Typical Value (English)	Typical Value (SI)	Test Method
Flame Rating			UL 94
0.030 in (0.75 mm)	V-0	V-0	
0.06 in (1.5 mm)	V-0	V-0	
0.12 in (3.0 mm)	V-0	V-0	

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

Notes

¹ Typical values are not to be construed as specifications.

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