



Bergamid™ A700 G15 HW UF Polyamide 66

Key Characteristics

General	
Material Status	• Commercial: Active
Regional Availability	• Africa & Middle East • Europe • Asia Pacific • North America
Filler / Reinforcement	• Glass Fiber, 15% Filler by Weight
Additive	• Heat Stabilizer
Features	• Flame Retardant • Halogen Free • Heat Stabilized
RoHS Compliance	• RoHS Compliant
UL File Number	• E76261
Forms	• Pellets

Technical Properties ¹

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density ²	1.31 g/cm ³	1.31 g/cm ³	DIN 53479
Mechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Modulus (73°F (23°C))	1.02E+6 psi	7000 MPa	ISO 527-2/1
Tensile Stress (Break, 73°F (23°C))	15200 psi	105 MPa	ISO 527-2/5
Tensile Strain (Break, 73°F (23°C))	3.0 %	3.0 %	ISO 527-2/5
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 179/1eA
Charpy Unnotched Impact Strength 73°F (23°C)	24 ft·lb/in ²	50 kJ/m ²	ISO 179/1eU
Thermal	Typical Value (English)	Typical Value (SI)	Test Method
Melting Temperature (DSC)	502 °F	261 °C	ISO 3146
RTI Elec			UL 746
0.016 in (0.40 mm)	149 °F	65.0 °C	
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 746
0.016 in (0.40 mm)	149 °F	65.0 °C	
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 746
0.016 in (0.40 mm)	149 °F	65.0 °C	
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	
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

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Electrical	Typical Value (English)	Typical Value (SI)	Test Method
Comparative Tracking Index (CTI)			UL 746
0.118 in (3.00 mm)	PLC 0	PLC 0	
Comparative Tracking Index (Solution A)	600 V	600 V	IEC 60112
Flammability	Typical Value (English)	Typical Value (SI)	Test Method
Flame Rating			
0.016 in (0.40 mm), ALL	V-0	V-0	UL 94
0.030 in (0.75 mm), ALL	V-0	V-0	UL 94
0.06 in (1.5 mm), ALL	V-0	V-0	Internal Method
0.12 in (3.0 mm), ALL	V-0	V-0	UL 94
Glow Wire Ignition Temperature			IEC 60695-2-13
0.06 in (1.6 mm)	1760 °F	960 °C	
0.12 in (3.0 mm)	1760 °F	960 °C	

Additional Information

These products contain flame retardants which are activated by longer residence times in the cylinder and then can decompose. At interruption of the moulding cycle (approx. >5 min) it is recommended to jet melt completely and to clean the cylinder, e.g. with a standard polyamide.

Processing Information

Injection	Typical Value (English)	Typical Value (SI)
Drying Temperature - Desiccant Dryer	176 °F	80.0 °C
Drying Time - Desiccant Dryer	3.0 to 4.0 hr	3.0 to 4.0 hr
Processing (Melt) Temp	500 to 536 °F	260 to 280 °C
Mold Temperature	140 to 194 °F	60.0 to 90.0 °C
Holding Pressure	5800 to 13100 psi	40.0 to 90.0 MPa

Notes

¹ Typical values are not to be construed as specifications.

² ±0.03 g/cm³

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