



# Bergamid™ AB700 UF SO

## Polyamide 66/6 Copolymer

### Key Characteristics

General			
Material Status	• Commercial: Active		
Regional Availability	• Africa & Middle East	• Asia Pacific	• Europe
Additive	• Heat Stabilizer		
Features	• Flame Retardant • Good Flow	• Halogen Free • Heat Stabilized	• Low (to None) Phosphorus Content
RoHS Compliance	• RoHS Compliant		
Forms	• Pellets		

### Technical Properties <sup>1</sup>

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density <sup>2</sup>	1.20 g/cm <sup>3</sup>	1.20 g/cm <sup>3</sup>	DIN 53479
Mechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Modulus (73°F (23°C))	580000 psi	4000 MPa	ISO 527-2/1
Tensile Stress (Break, 73°F (23°C))	10900 psi	75.0 MPa	ISO 527-2/5
Tensile Strain (Break, 73°F (23°C))	5.5 %	5.5 %	ISO 527-2/5
Impact	Typical Value (English)	Typical Value (SI)	Test Method
Charpy Notched Impact Strength			ISO 179
-22°F (-30°C)	1.1 ft·lb/in <sup>2</sup>	2.4 kJ/m <sup>2</sup>	
73°F (23°C)	1.4 ft·lb/in <sup>2</sup>	3.0 kJ/m <sup>2</sup>	
Charpy Unnotched Impact Strength			ISO 179
-22°F (-30°C)	30 ft·lb/in <sup>2</sup>	64 kJ/m <sup>2</sup>	
73°F (23°C)	No Break	No Break	
Thermal	Typical Value (English)	Typical Value (SI)	Test Method
Heat Deflection Temperature			ISO 75-2/B
66 psi (0.45 MPa), Unannealed	374 °F	190 °C	
Heat Deflection Temperature			ISO 75-2/A
264 psi (1.8 MPa), Unannealed	176 °F	80.0 °C	
Maximum Use Temperature			IEC 60216
-- <sup>3</sup>	239 °F	115 °C	
Short Time	392 °F	200 °C	
Melting Temperature (DSC)	469 °F	243 °C	ISO 3146
Electrical	Typical Value (English)	Typical Value (SI)	Test Method
Surface Resistivity	1.0E+10 ohms	1.0E+10 ohms	IEC 60093
Volume Resistivity	1.0E+12 ohms·cm	1.0E+12 ohms·cm	IEC 60093
Electric Strength	1100 V/mil	45 kV/mm	IEC 60243-1
Dissipation Factor (1 MHz)	0.30	0.30	IEC 60250
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	Internal Method
Glow Wire Flammability Index <sup>4</sup>			IEC 60695-2-12
0.031 in (0.8 mm)	1760 °F	960 °C	
Glow Wire Ignition Temperature <sup>4</sup>			IEC 60695-2-13
0.031 in (0.8 mm)	1340 °F	725 °C	

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**Notes**

- <sup>1</sup> Typical values are not to be construed as specifications.
- <sup>2</sup> ±0.02 g/cm<sup>3</sup>
- <sup>3</sup> Continuous (GTP 50% Tensile)
- <sup>4</sup> Typical property for uncolored material, not to be construed as specification

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