

Bergamid™ AB700 UF NATUR

Polyamide 66/6 Copolymer

Key Characteristics

General	
Material Status	• Commercial: Active
Regional Availability	• Europe
Features	• Flame Retardant • Halogen Free
RoHS Compliance	• RoHS Compliant
Appearance	• Natural Color
Forms	• Pellets

Technical Properties ¹

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density ²	1.19 g/cm ³	1.19 g/cm ³	DIN 53479
Molding Shrinkage			ISO 294-4
Across Flow : 0.0787 in (2.00 mm)	0.55 to 0.95 %	0.55 to 0.95 %	
Flow : 0.0787 in (2.00 mm)	0.65 to 1.0 %	0.65 to 1.0 %	
Mechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Modulus (73°F (23°C))	471000 psi	3250 MPa	ISO 527-1/1
Tensile Stress (Break, 73°F (23°C))	10400 psi	72.0 MPa	ISO 527-2/5
Tensile Strain (Break, 73°F (23°C))	> 4.0 %	> 4.0 %	ISO 527-2/5
Impact	Typical Value (English)	Typical Value (SI)	Test Method
Charpy Notched Impact Strength (73°F (23°C))	1.7 ft·lb/in ²	3.5 kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength 73°F (23°C)	No Break	No Break	ISO 179/1eU
Notched Izod Impact Strength	1.7 ft·lb/in ²	3.5 kJ/m ²	ISO 180
Thermal	Typical Value (English)	Typical Value (SI)	Test Method
Deflection Temperature Under Load 66 psi (0.45 MPa), Unannealed	374 °F	190 °C	ISO 75-2/B
Deflection Temperature Under Load 264 psi (1.8 MPa), Unannealed	176 °F	80.0 °C	ISO 75-2/A
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
Comparative Tracking Index (Solution A)	600 V	600 V	IEC 60112
Flammability	Typical Value (English)	Typical Value (SI)	Test Method
Flame Rating			Internal Method
0.02 to 0.12 in (0.4 to 3.0 mm), ALL	V-0	V-0	
Glow Wire Ignition Temperature ³			IEC 60695-2-13
0.03 to 0.12 in (0.8 to 3.0 mm)	1760 °F	960 °C	

Notes

¹ Typical values are not to be construed as specifications.

² ±0.03 g/cm³

³ 0.4 mm wire

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