



Bergamid™ X2 B70 U NC

Polyamide 6

Key Characteristics

General			
Material Status	• Commercial: Active		
Regional Availability	• Africa & Middle East	• Asia Pacific	• Europe
Additive	• Flame Retardant	• Halogen	
RoHS Compliance	• RoHS Compliant		
Forms	• Pellets		
Processing Method	• Injection Molding		

Technical Properties ¹

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density ² (73°F (23°C))	1.27 g/cm ³	1.27 g/cm ³	DIN 53479
Mechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Modulus			ISO 527-2/1
73°F (23°C), 0.157 in (4.00 mm)	551000 psi	3800 MPa	
Tensile Stress			ISO 527-2/50
Yield, 73°F (23°C), 0.157 in (4.00 mm)	11200 psi	77.0 MPa	
Tensile Strain			ISO 527-2/50
Yield, 73°F (23°C), 0.157 in (4.00 mm)	3.2 %	3.2 %	
Flexural Modulus (73°F (23°C))	421000 psi	2900 MPa	ISO 178
Flexural Stress (73°F (23°C))	14200 psi	98.0 MPa	ISO 178
Impact	Typical Value (English)	Typical Value (SI)	Test Method
Charpy Notched Impact Strength (73°F (23°C))	1.7 ft·lb/in ²	3.6 kJ/m ²	ISO 179
Charpy Unnotched Impact Strength			ISO 179
73°F (23°C)	No Break	No Break	
Thermal	Typical Value (English)	Typical Value (SI)	Test Method
Melting Temperature (DSC)	433 °F	223 °C	ISO 3146
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+13 ohms·cm	> 1.0E+13 ohms·cm	IEC 60093
Comparative Tracking Index	275 V	275 V	IEC 60112
Flammability	Typical Value (English)	Typical Value (SI)	Test Method
Flame Rating			UL 94
0.016 in (0.40 mm)	V-2	V-2	
0.031 in (0.8 mm), ALL	V-2	V-2	
0.06 in (1.6 mm)	V-2	V-2	
Glow Wire Flammability Index			IEC 60695-2-12
0.031 in (0.8 mm)	1760 °F	960 °C	
0.06 in (1.6 mm)	1760 °F	960 °C	
0.12 in (3.0 mm)	1760 °F	960 °C	
Glow Wire Ignition Temperature			IEC 60695-2-13
0.016 in (0.40 mm)	> 1520 °F	> 825 °C	
0.031 in (0.8 mm)	1520 °F	825 °C	
0.06 in (1.6 mm)	1520 °F	825 °C	

Processing Information

Injection	Typical Value (English)	Typical Value (SI)
Drying Temperature	176 °F	80 °C
Drying Time	4.0 to 6.0 hr	4.0 to 6.0 hr
Processing (Melt) Temp	446 to 500 °F	230 to 260 °C
Mold Temperature	140 to 176 °F	60 to 80 °C

Notes

¹ Typical values are not to be construed as specifications.

² ±0.03 g/cm³