



Bergamid™ B70 X11 BLACK TM-Z

Polyamide 6

Key Characteristics

Product Description		
PA6 Compound with Impact Modified.		
General		
Material Status	• Commercial: Active	
Regional Availability	• Africa & Middle East	• Europe
Features	• Heat Stabilized	• High Impact Resistance
RoHS Compliance	• RoHS Compliant	
Appearance	• Black	
Forms	• Pellets	
Processing Method	• Injection Molding	

Technical Properties ¹

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density / Specific Gravity ²	1.04	1.04	ISO 1183
Mechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Modulus	221000 psi	1530 MPa	ISO 527-2
Tensile Stress (Break)	5800 psi	40.0 MPa	ISO 527-2
Nominal Tensile Strain at Break	95 %	95 %	ISO 527-2
Flexural Modulus	203000 psi	1400 MPa	ISO 178
Flexural Stress	7980 psi	55.0 MPa	ISO 178
Impact	Typical Value (English)	Typical Value (SI)	Test Method
Charpy Notched Impact Strength (73°F (23°C))	38 ft·lb/in ²	80 kJ/m ²	ISO 179
Charpy Unnotched Impact Strength 73°F (23°C)	No Break	No Break	ISO 179
Thermal	Typical Value (English)	Typical Value (SI)	Test Method
Heat Deflection Temperature 264 psi (1.8 MPa), Unannealed	122 °F	50.0 °C	ISO 75-2/A
Melting Temperature (DSC)	419 to 437 °F	215 to 225 °C	ISO 3146
Flammability	Typical Value (English)	Typical Value (SI)	Test Method
Burning Rate	< 3.9 in/min	< 100 mm/min	ISO 3795
Flame Rating ³			UL 94
0.031 in (0.8 mm)	HB	HB	
0.06 in (1.6 mm)	HB	HB	

Processing Information

Injection	Typical Value (English)	Typical Value (SI)
Drying Temperature	176 °F	80 °C
Drying Time	3.0 to 4.0 hr	3.0 to 4.0 hr
Suggested Max Moisture	< 0.10 %	< 0.10 %
Processing (Melt) Temp	482 to 536 °F	250 to 280 °C
Mold Temperature	104 to 176 °F	40 to 80 °C

Notes

¹ Typical values are not to be construed as specifications.

² +/-0.02

³ PolyOne internally