



Bergamid™ B A1400 12 BL

Polyamide 6

Key Characteristics

Product Description			
Halogen-free flame retardant V2 PA6 resin for injection molding.			
General			
Material Status	• Commercial: Active		
Regional Availability	• Europe		
Features	• Flame Retardant • Good Processability	• Good Stiffness • Good Strength	• Medium Viscosity
Uses	• Automotive Applications • Consumer Applications	• General Purpose • Industrial Applications	
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	1.17 g/cm ³	1.17 g/cm ³	ISO 1183
Mechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Modulus	479000 psi	3300 MPa	ISO 527-2/1
Tensile Stress	10200 psi	70.0 MPa	ISO 527-2/50
Tensile Strain (Yield)	3.5 %	3.5 %	ISO 527-2/50
Impact	Typical Value (English)	Typical Value (SI)	Test Method
Notched Izod Impact	0.10 ft-lb/in	5.5 J/m	ISO 180/A
Thermal	Typical Value (English)	Typical Value (SI)	
Melting Temperature	428 to 437 °F	220 to 225 °C	
Flammability	Typical Value (English)	Typical Value (SI)	Test Method
Flame Rating (0.06 in (1.6 mm))	V-2	V-2	UL 94
Glow Wire Flammability Index 0.08 in (2.0 mm)	1760 °F	960 °C	IEC 60695-2-12

Processing Information

Injection	Typical Value (English)	Typical Value (SI)
Drying Temperature	176 °F	80 °C
Drying Time	2.0 hr	2.0 hr
Rear Temperature	446 to 464 °F	230 to 240 °C
Middle Temperature	455 to 473 °F	235 to 245 °C
Front Temperature	464 to 482 °F	240 to 250 °C
Nozzle Temperature	473 to 491 °F	245 to 255 °C
Mold Temperature	176 °F	80 °C

Notes

¹ Typical values are not to be construed as specifications.