Bergamid™ B65 White EL 70

Polyamide 6

Key Characteristics

General			
Material Status	• Commercial: Active		
Regional Availability	• Europe		
Features	• Good Impact Resistance • Good Processability	• Good Stiffness • Good Strength	• High Viscosity
Uses	• Appliances • Consumer Applications	• Electrical/Electronic Applications • General Purpose	• Industrial Applications
Appearance	• White		
Forms	• Pellets		
Processing Method	• Injection Molding		

Technical Properties [1]

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density	1.13 g/cm³	1.13 g/cm³	ISO 1183
Molding Shrinkage			Internal Method
Across Flow	1.3 %	1.3 %	
Flow	1.3 %	1.3 %	
Mechanical	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Tensile Modulus	392000 psi	2700 MPa	ISO 527-2/1
Tensile Stress	9430 psi	65.0 MPa	ISO 527-2/50
Tensile Strain (Yield)	4.0 %	4.0 %	ISO 527-2/50
Impact	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Notched Izod Impact Strength	2.4 ft·lb/in²	5.0 kJ/m²	ISO 180/A
Thermal	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Vicat Softening Temperature	419 °F	215 °C	ISO 306/A120
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))	HB	HB	UL 94
Glow Wire Flammability Index			IEC 60695-2-12
0.08 in (2.0 mm)	1200 °F	650 °C	

Processing Information

Injection	Typical Value (English)	Typical Value (SI)
Drying Temperature	176 to 194 °F	80 to 90 °C
Drying Time	2.0 to 4.0 hr	2.0 to 4.0 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	482 to 500 °F	250 to 260 °C
Mold Temperature	176 °F	80 °C

Notes

[1] Typical values are not to be construed as specifications.