

# Bergamid™ A65 Natural 70

## Polyamide 66

### Key Characteristics

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

### Technical Properties <sup>1</sup>

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density	1.13 g/cm <sup>3</sup>	1.13 g/cm <sup>3</sup>	ISO 1183
Molding Shrinkage			Internal Method
Across Flow	1.3 to 1.5 %	1.3 to 1.5 %	
Flow	1.3 to 1.5 %	1.3 to 1.5 %	
Mechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Modulus	435000 psi	3000 MPa	ISO 527-1/1
Tensile Stress	11600 psi	80.0 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	2.1 ft·lb/in <sup>2</sup>	4.5 kJ/m <sup>2</sup>	ISO 180/A
Thermal	Typical Value (English)	Typical Value (SI)	Test Method
Deflection Temperature Under Load 66 psi (0.45 MPa), Unannealed	446 °F	230 °C	ISO 75-2/B
Deflection Temperature Under Load 264 psi (1.8 MPa), Unannealed	176 °F	80.0 °C	ISO 75-2/A
Vicat Softening Temperature	455 °F	235 °C	ISO 306
Melting Temperature	500 to 509 °F	260 to 265 °C	
Electrical	Typical Value (English)	Typical Value (SI)	Test Method
Comparative Tracking Index	600 V	600 V	IEC 60112
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)	1380 °F	750 °C	IEC 60695-2-12

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**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	527 to 545 °F	275 to 285 °C
Middle Temperature	536 to 554 °F	280 to 290 °C
Front Temperature	545 to 563 °F	285 to 295 °C
Nozzle Temperature	563 to 572 °F	295 to 300 °C
Mold Temperature	149 to 185 °F	65 to 85 °C

**Notes**

<sup>1</sup> Typical values are not to be construed as specifications.

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