Bergamid™ B65 H Black T TM-Z FI Extra 70

Polyamide 6

Key Characteristics

General			
Material Status	• Commercial: Active		
Regional Availability	• Europe		
Additive	• Impact Modifier		
Features	• Good Heat Resistance • Good Processability • Good Stiffness	• Good Strength • Heat Stabilized • High Impact Resistance	• Medium Viscosity
Uses	• Automotive Applications • Consumer Applications	• Electrical/Electronic Applications • General Purpose	• Industrial Applications
Appearance	• Black		
Forms	• Pellets		
Processing Method	• Injection Molding		

Technical Properties [1]

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density	0.990 g/cm³	0.990 g/cm³	ISO 1183
Mechanical	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Tensile Modulus	50800 psi	350 MPa	ISO 527-2/1
Tensile Stress	2610 psi	18.0 MPa	ISO 527-2/50
Tensile Strain (Break)	> 100 %	> 100 %	ISO 527-2/50
Impact	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Notched Izod Impact Strength	No Break	No Break	ISO 180/A
Hardness	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Shore Hardness (Shore D)	45	45	ISO 868
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))	HB	HB	UL 94

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	140 to 176 °F	60 to 80 °C

Notes

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