

BergamidTM B80 Black Polyamide 6

	Key Characteristics	3	
roduct Description			
PA6 compound			
General			
Material Status	Commercial: Active		
Regional Availability	Asia Pacific		
Appearance	• Black		
Processing Method	Injection Molding		
	Technical Properties	51	
hysical	Typical Value (English)	Typical Value (SI)	Test Method
Specific Gravity	1.13	1.13	ASTM D792
Molding Shrinkage	1.2 to 1.6 %	1.2 to 1.6 %	ASTM D955
Iechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Strength ²	10900 psi	75.0 MPa	ASTM D638
Flexural Modulus ³	377000 psi	2600 MPa	ASTM D790
Flexural Strength ³	14500 psi	100 MPa	ASTM D790
mpact	Typical Value (English)	Typical Value (SI)	Test Method
Notched Izod Impact			ASTM D256
73°F (23°C), 0.126 in (3.20 mm)	- /	30J/m	
hermal	Typical Value (English)	Typical Value (SI)	Test Method
Deflection Temperature Under Loa			ASTM D648
264 psi (1.8 MPa), Unannealed,	0.126 in		
(3.20 mm)	149 °F	65.0 °C	
lectrical	Typical Value (English)	Typical Value (SI)	Test Method
Surface Resistivity	> 1.0E+12 ohms	> 1.0E+12 ohms	ASTM D257
lammability	Typical Value (English)	Typical Value (SI)	Test Method
Flame Rating (0.13 in (3.2 mm))	HB	HB	Internal Metho

Processing Information

Injection	Typical Value (English)	Typical Value (SI)	
Drying Temperature	176 to 194 °F	80.0 to 90.0 °C	
Drying Time	2.0 to 4.0 hr	2.0 to 4.0 hr	
Processing (Melt) Temp	464 to 536 °F	240 to 280 °C	
Mold Temperature	149 to 185 °F	65.0 to 85.0 °C	

Injection Notes Injection Pressure: MED-HIGH Hold Pressure: MED-HIGH Screw Speed: MODERATE Back Pressure: LOW

Notes

¹Typical values are not to be construed as specifications.

² 2.0 in/min (50 mm/min)

³0.051 in/min (1.3 mm/min)

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