



# LubriOne™ LB6000-5003BK

## Polyamide 6

### Key Characteristics

General			
Material Status	• Commercial: Active		
Regional Availability	• Europe		
Features	• Chemical Resistant • Good Processing Stability	• Low Friction • Lubricated	• Medium Viscosity • Wear Resistant
Uses	• Appliance Components • Automotive Applications • Bearings • Business Equipment	• Consumer Applications • Conveyor Parts • Gears • Industrial Applications	• Printer Parts • Rollers
Appearance	• Black		
Forms	• Pellets		

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

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density <sup>2</sup> (73°F (23°C))	1.15 g/cm <sup>3</sup>	1.15 g/cm <sup>3</sup>	ISO 1183
Molding Shrinkage			ISO 294-4
Flow	1.1 to 1.4 %	1.1 to 1.4 %	
Across Flow : 73°F (23°C), 0.0787 in (2.00 mm) <sup>3</sup>	1.0 to 1.2 %	1.0 to 1.2 %	
Mechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Modulus (73°F (23°C))	493000 psi	3400 MPa	ISO 527-2/1
Tensile Stress			ISO 527-2/50
73°F (23°C), 0.157 in (4.00 mm)	11000 psi	76.0 MPa	
Tensile Strain			ISO 527-2/50
Break, 73°F (23°C), 0.157 in (4.00 mm)	> 10 %	> 10 %	
Impact	Typical Value (English)	Typical Value (SI)	Test Method
Charpy Notched Impact Strength			ISO 179
-22°F (-30°C)	1.6 ft·lb/in <sup>2</sup>	3.3 kJ/m <sup>2</sup>	
73°F (23°C)	2.6 ft·lb/in <sup>2</sup>	5.4 kJ/m <sup>2</sup>	
Charpy Unnotched Impact Strength			ISO 179
-22°F (-30°C)	No Break	No Break	
73°F (23°C)	No Break	No Break	
Thermal	Typical Value (English)	Typical Value (SI)	Test Method
Heat Deflection Temperature			ISO 75-2/B
66 psi (0.45 MPa), Unannealed	340 °F	171 °C	
Heat Deflection Temperature			ISO 75-2/A
264 psi (1.8 MPa), Unannealed	153 °F	67.0 °C	

### Processing Information

Injection	Typical Value (English)	Typical Value (SI)
Drying Temperature	176 °F	80 °C
Drying Time	4.0 hr	4.0 hr
Processing (Melt) Temp	464 to 536 °F	240 to 280 °C
Mold Temperature	140 to 194 °F	60 to 90 °C

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**Notes**<sup>1</sup> Typical values are not to be construed as specifications.<sup>2</sup> ±0.02<sup>3</sup> Bergmann method**CONTACT INFORMATION****Americas**United States - Avon Lake  
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