

LubriOne[™] LB6000-5003BK Polyamide 6

Key Characteristics

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

Technical Properties¹

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density ² (73°F (23°C))	1.15 g/cm ³	1.15 g/cm ³	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) ³	1.0 to 1.2 %	1.0 to 1.2 %	
lechanical	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 %	
npact	Typical Value (English)	Typical Value (SI)	Test Method
Charpy Notched Impact Strength			ISO 179
-22°F (-30°C)	1.6 ft·lb/in ²	3.3 kJ/m²	
73°F (23°C)	2.6 ft·lb/in ²	5.4 kJ/m²	
Charpy Unnotched Impact Strength			ISO 179
-22°F (-30°C)	No Break	No Break	
73°F (23°C)	No Break	No Break	
hermal	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	80.0 °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	60.0 to 90.0 °C	

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Notes

¹ Typical values are not to be construed as specifications.

² ±0.02

³ Bergmann method

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