



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 ¹

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 %	
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 ²	3.3 kJ/m ²	
73°F (23°C)	2.6 ft·lb/in ²	5.4 kJ/m ²	
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	80.0 °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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Notes¹ Typical values are not to be construed as specifications.² ±0.02³ Bergmann method**CONTACT INFORMATION****Americas**United States - Avon Lake
+1 440 930 1000United States - McHenry
+1 815 385 8500**Asia**China - Guangzhou
+86 20 8732 7260China - Shenzhen
+86 755 2969 2888China - Suzhou
+86 512 6823 24 38China - Suzhou
+86 512 6265 2600Hong Kong -
+852 2690 5332Taiwan - Yonghe City,
+886 9396 99740, +886 2929 1849**Europe**Germany - Gaggenau
+49 7225 6802 0Spain - Barbastro (Huesca)
+34 974 310 314*Beyond Polymers.**Better Business Solutions.™*

www.polyone.com

PolyOne Americas33587 Walker Road
Avon Lake, Ohio 44012
United States
+1 440 930 1000
+1 866 POLYONE**PolyOne Asia**No. 88 Guoshoujing Road
Z.J Hi-tech Park, Pudong
Shanghai, 201203, China
+86 21 5080 1188**PolyOne Europe**6 Giällewee
+352 269 050 35

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