

# LubriOne™ LB 6000-5006 NHFR NATURAL Polyamide 6

## **Key Characteristics**

#### Product Description

LubriOne™ Lubricated and Wear-Resistant Compounds have been specifically formulated to be self-lubricating materials, offering low coefficient of friction and improved wear resistance properties. LubriOne compounds have been demonstrated to reduce friction, noise, vibration, heat buildup and improve product durability.

General	
Material Status	Commercial: Active
Regional Availability	• Europe
Features	<ul> <li>Flame Retardant</li> <li>Good Wear Resistance</li> <li>Halogen Free</li> <li>Low Friction</li> <li>Lubricated</li> </ul>
Uses	Industrial Applications
Forms	• Pellets
Processing Method	Injection Molding

## Technical Properties 1

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Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density	1.46 g/cm <sup>3</sup>	1.46 g/cm <sup>3</sup>	ISO 1183
Mechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Modulus	1.51E+6 psi	10400 MPa	ISO 527-2
Tensile Stress (Break)	19000 psi	131 MPa	ISO 527-2
Tensile Strain (Break)	3.5 %	3.5 %	ISO 527-2
Flexural Modulus	1.25E+6 psi	8600 MPa	ISO 178
Flexural Stress	29000 psi	200 MPa	ISO 178
Impact	Typical Value (English)	Typical Value (SI)	Test Method
Charpy Notched Impact Strength	3.6 ft·lb/in²	7.5 kJ/m²	ISO 179
Charpy Unnotched Impact Strength	29 ft·lb/in²	60 kJ/m²	ISO 179
Thermal	Typical Value (English)	Typical Value (SI)	Test Method
Heat Deflection Temperature			ISO 75-2/A
264 psi (1.8 MPa), Unannealed	383 °F	195 °C	
Flammability	Typical Value (English)	Typical Value (SI)	Test Method
Glow Wire Flammability Index			IEC 60695-2-12
0.0630 in (1.60 mm)	1760 °F	960 °C	
0.118 in (3.00 mm)	1760 °F	960 °C	

## **Processing Information**

Injection	Typical Value (English)	Typical Value (SI)	
Drying Temperature	176 °F	80.0 °C	
Drying Time	3.0 to 4.0 hr	3.0 to 4.0 hr	
Processing (Melt) Temp	500 to 554 °F	260 to 290 °C	
Mold Temperature	122 to 194 °F	50.0 to 90.0 °C	

#### **Notes**

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<sup>&</sup>lt;sup>1</sup> Typical values are not to be construed as specifications.

#### **CONTACT INFORMATION**

Americas

United States - Avon Lake +1 440 930 1000

United States - McHenry +1 815 385 8500 Asia

China - Guangzhou +86 20 8732 7260 China - Shenzhen +86 755 2969 2888

China - Suzhou +86 512 6823 24 38

China - Suzhou +86 512 6265 2600 Hong Kong -+852 2690 5332

Taiwan - Yonghe City, +886 9396 99740, +886 2929 1849 Europe

Germany - Gaggenau +49 7225 6802 0

Spain - Barbastro (Huesca) +34 974 310 314

PolyOne.

Beyond Polymers.

Better Business Solutions. SM

www.polyone.com

PolyOne Americas

33587 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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