



# LubriOne™ LB3200-5007 Natural Polycarbonate

## 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	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Features	• Good Wear Resistance	• Low Friction	• Lubricated
Uses	• Appliance Components • Automotive Applications • Bearings	• Business Equipment • Consumer Applications • Conveyor Parts	• Gears • Industrial Applications
RoHS Compliance	• RoHS Compliant		
Forms	• Pellets		
Processing Method	• Injection Molding		

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

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density	1.28 g/cm <sup>3</sup>	1.28 g/cm <sup>3</sup>	ISO 1183
Melt Volume-Flow Rate (MVR) (300°C/2.16 kg)	0.244 in <sup>3</sup> /10min	4.00 cm <sup>3</sup> /10min	ISO 1133
Ash Content	20 %	20 %	ISO 3451
Mechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Modulus	305000 psi	2100 MPa	ISO 527-2
Tensile Stress (Break)	7250 psi	50.0 MPa	ISO 527-2
Tensile Strain (Break)	15 %	15 %	ISO 527-2
Impact	Typical Value (English)	Typical Value (SI)	Test Method
Charpy Notched Impact Strength (73°F (23°C))	4.8 ft·lb/in <sup>2</sup>	10 kJ/m <sup>2</sup>	ISO 179
Charpy Unnotched Impact Strength 73°F (23°C)	No Break	No Break	ISO 179
Thermal	Typical Value (English)	Typical Value (SI)	Test Method
Heat Deflection Temperature 66 psi (0.45 MPa), Unannealed	286 °F	141 °C	ISO 75-2/B
Heat Deflection Temperature 264 psi (1.8 MPa), Unannealed	266 °F	130 °C	ISO 75-2/A
Electrical	Typical Value (English)	Typical Value (SI)	Test Method
Surface Resistivity	1.0E+15 ohms	1.0E+15 ohms	IEC 60093
Volume Resistivity	1.0E+13 ohms·cm	1.0E+13 ohms·cm	IEC 60093
Comparative Tracking Index (Solution A)	275 V	275 V	IEC 60112
Flammability	Typical Value (English)	Typical Value (SI)	Test Method
Flame Rating			UL 94
0.0315 in (0.800 mm)	HB	HB	
0.0630 in (1.60 mm)	HB	HB	

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**Notes**

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

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