



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	• Low Friction • Lubricated • Wear Resistant
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 ¹

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density	1.28 g/cm ³	1.28 g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) (300°C/2.16 kg)	4.00 cm ³ /10min	4.00 cm ³ /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 ²	10 kJ/m ²	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
0.031 in (0.8 mm)	HB	HB	
0.06 in (1.6 mm)	HB	HB	