



LubriOne™ LB3200-5009 Grey VN3986

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 • Europe
Features	• Low Friction • Lubricated • Wear Resistant
Uses	• Aircraft Applications • Bearings • Conveyor Parts • Appliance Components • Business Equipment • Gears • Automotive Applications • Consumer Applications • Industrial Applications
RoHS Compliance	• RoHS Compliant
Appearance	• Grey
Forms	• Pellets
Processing Method	• Injection Molding

Technical Properties ¹

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density ²	1.28 g/cm ³	1.28 g/cm ³	ISO 1183
Mechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Modulus	290000 psi	2000 MPa	ISO 527-2
Tensile Stress (Break)	7250 psi	50.0 MPa	ISO 527-2
Flexural Modulus	290000 psi	2000 MPa	ISO 178
Flexural Stress	11200 psi	77.0 MPa	ISO 178
Impact	Typical Value (English)	Typical Value (SI)	Test Method
Charpy Notched Impact Strength (73°F (23°C))	6.7 ft·lb/in ²	14 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
Vicat Softening Temperature	293 °F	145 °C	ISO 306 ³

Processing Information

Injection	Typical Value (English)	Typical Value (SI)
Drying Temperature	248 °F	120 °C
Drying Time	2.0 to 4.0 hr	2.0 to 4.0 hr
Processing (Melt) Temp	536 to 572 °F	280 to 300 °C
Mold Temperature	176 to 230 °F	80 to 110 °C

Notes

¹ Typical values are not to be construed as specifications.

² +/-0.02

³ Rate A (50°C/h), Loading 2 (50 N)