



# LubriOne™ LB5210-0237 1B NATURAL

## Polypropylene

### 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	• North America
Features	• Lubricated • Wear Resistant
RoHS Compliance	• RoHS Compliant
Appearance	• Black
Forms	• Pellets

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

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density / Specific Gravity	1.13	1.13	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	7.6 g/10 min	7.6 g/10 min	ASTM D1238
Molding Shrinkage - Flow	1.0E-3 to 4.0E-3 in/in	0.10 to 0.40 %	ASTM D955
Mechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Modulus <sup>2</sup>	600000 psi	4140 MPa	ASTM D638
Tensile Strength <sup>3</sup> (Yield)	17500 psi	121 MPa	ASTM D638
Tensile Elongation <sup>3</sup> (Break)	5.0 %	5.0 %	ASTM D638
Flexural Modulus	769000 psi	5300 MPa	ASTM D790
Flexural Strength	18900 psi	130 MPa	ASTM D790

### Processing Information

Injection	Typical Value (English)	Typical Value (SI)
Drying Temperature	175 °F	79 °C
Drying Time	2.0 to 4.0 hr	2.0 to 4.0 hr
Rear Temperature	370 to 450 °F	188 to 232 °C
Middle Temperature	380 to 460 °F	193 to 238 °C
Front Temperature	390 to 470 °F	199 to 243 °C
Nozzle Temperature	365 to 475 °F	185 to 246 °C
Mold Temperature	70 to 140 °F	21 to 60 °C

#### Notes

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

<sup>2</sup> Type I, 0.20 in/min (5.1 mm/min)

<sup>3</sup> 0.20 in/min (5.1 mm/min)