



LubriOne™ LB3100-8008 HS GR001

Polycarbonate + ABS

Key Characteristics

Product Description			
PTFE and silicone lubricated PC/ABS compound			
General			
Material Status	• Commercial: Active		
Regional Availability	• Asia Pacific		
Features	• Low Friction	• Lubricated	• Wear Resistant
Uses	• Appliance Components • Automotive Applications • Bearings • Business Equipment	• Consumer Applications • Conveyor Parts • Gears • Industrial Applications	• Printer Parts • Pulleys • Rollers
Appearance	• Grey		
Forms	• Pellets		
Processing Method	• Injection Molding		

Technical Properties ¹

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Specific Gravity	1.19	1.19	ASTM D792
Molding Shrinkage - Flow	5.0E-3 to 7.0E-3 in/in	0.50 to 0.70 %	ASTM D955
Mechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Strength ² (Yield, 73°F (23°C))	7980 psi	55.0 MPa	ASTM D638
Tensile Elongation ² (Break)	> 20 %	> 20 %	ASTM D638
Flexural Modulus ³ (73°F (23°C))	334000 psi	2300 MPa	ASTM D790
Flexural Strength ³ (73°F (23°C))	13100 psi	90.0 MPa	ASTM D790
Impact	Typical Value (English)	Typical Value (SI)	Test Method
Notched Izod Impact 73°F (23°C), 0.126 in (3.20 mm), Injection Molded	7.5 ft-lb/in	400 J/m	ASTM D256A
Thermal	Typical Value (English)	Typical Value (SI)	Test Method
Deflection Temperature Under Load 264 psi (1.8 MPa), Unannealed	223 °F	106 °C	ASTM D648

Processing Information

Injection	Typical Value (English)	Typical Value (SI)
Drying Temperature	194 °F	90.0 °C
Drying Time	4.0 to 6.0 hr	4.0 to 6.0 hr
Processing (Melt) Temp	464 to 500 °F	240 to 260 °C
Mold Temperature	176 °F	80.0 °C

Injection Notes
Injection Pressure: MED-HIGH
Hold Pressure: MED-HIGH
Screw Speed: MODERATE
Back Pressure: LOW

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Notes

¹ Typical values are not to be construed as specifications.

² Type I, 2.0 in/min (50 mm/min)

³ 0.051 in/min (1.3 mm/min)

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