



LubriOne™ PC-10CF/15T BLACK

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 • North America
Filler / Reinforcement	• Carbon Fiber, 10% Filler by Weight
Additive	• PTFE Lubricant
Features	• Lubricated
Appearance	• Black
Processing Method	• Injection Molding

Technical Properties ¹

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density / Specific Gravity	1.31	1.31	ASTM D792
Molding Shrinkage - Flow	1.0E-3 to 3.0E-3 in/in	0.10 to 0.30 %	ASTM D955
Mechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Strength ² (Yield)	13900 psi	95.8 MPa	ASTM D638
Flexural Modulus ³	798000 psi	5500 MPa	ASTM D790
Flexural Strength ³	18900 psi	130 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)	1.3 ft-lb/in	69 J/m	ASTM D256
Thermal	Typical Value (English)	Typical Value (SI)	Test Method
Deflection Temperature Under Load 264 psi (1.8 MPa), Unannealed, 0.126 in (3.20 mm)	275 °F	135 °C	ASTM D648
Electrical	Typical Value (English)	Typical Value (SI)	Test Method
Surface Resistivity	1000 to 1.0E+6 ohms/sq	1000 to 1.0E+6 ohms/sq	ASTM D257
Flammability	Typical Value (English)	Typical Value (SI)	Test Method
Flame Rating (0.06 in (1.5 mm))	HB	HB	UL 94

Processing Information

Injection	Typical Value (English)	Typical Value (SI)
Drying Temperature	250 °F	121 °C
Drying Time	3.0 to 4.0 hr	3.0 to 4.0 hr
Suggested Max Moisture	0.20 %	0.20 %
Rear Temperature	480 to 570 °F	249 to 299 °C
Middle Temperature	520 to 590 °F	271 to 310 °C
Front Temperature	530 to 610 °F	277 to 321 °C
Nozzle Temperature	530 to 600 °F	277 to 316 °C
Mold Temperature	160 to 240 °F	71 to 116 °C

Injection Notes

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

Notes

¹ Typical values are not to be construed as specifications.

² 0.20 in/min (5.1 mm/min)

³ 0.051 in/min (1.3 mm/min)



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