



LubriOne™ MP-20GF/15T BLK

Polyphenylene Ether + PS

Key Characteristics

Product Description	
PTFE lubricated	
General	
Material Status	• Commercial: Active
Regional Availability	• Asia Pacific
Filler / Reinforcement	• Glass Fiber, 20% 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	2.0E-3 to 4.0E-3 in/in	0.20 to 0.40 %	ASTM D955
Mechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Modulus ²	848000 psi	5850 MPa	ASTM D638
Tensile Strength ²	13100 psi	90.0 MPa	ASTM D638
Tensile Elongation ² (Break)	3.5 %	3.5 %	ASTM D638
Flexural Modulus ³	877000 psi	6050 MPa	ASTM D790
Flexural Strength ³	20300 psi	140 MPa	ASTM D790
Coefficient of Friction			ASTM D1894
vs. Steel - Dynamic	0.19	0.19	
vs. Steel - Static	0.25	0.25	
Impact	Typical Value (English)	Typical Value (SI)	Test Method
Notched Izod Impact			ASTM D256
73°F (23°C), 0.126 in (3.20 mm)	1.7 ft-lb/in	90 J/m	
Thermal	Typical Value (English)	Typical Value (SI)	Test Method
Deflection Temperature Under Load			ASTM D648
264 psi (1.8 MPa), Unannealed, 0.126 in (3.20 mm)	275 °F	135 °C	
Flammability	Typical Value (English)	Typical Value (SI)	Test Method
Flame Rating			UL 94
0.06 in (1.5 mm)	HB	HB	
0.12 in (3.0 mm)	HB	HB	

Processing Information

Injection	Typical Value (English)	Typical Value (SI)
Drying Temperature	194 to 212 °F	90 to 100 °C
Drying Time	3.0 to 4.0 hr	3.0 to 4.0 hr
Rear Temperature	518 to 572 °F	270 to 300 °C
Middle Temperature	518 to 572 °F	270 to 300 °C
Front Temperature	518 to 572 °F	270 to 300 °C

Injection	Typical Value (English)	Typical Value (SI)
Mold Temperature	149 to 203 °F	65 to 95 °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 (5.0 mm/min)

³ 0.051 in/min (1.3 mm/min)



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