

PolyOne LubriOne™ SF-30CF/15T Polyphenylene Sulfide (PPS)

Category : Polymer , Thermoplastic , Polyphenylene Sulfide (PPS)

Material Notes:

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. Information provided by PolyOne

Order this product through the following link:

http://www.lookpolymers.com/polymer_PolyOne-LubriOne-SF-30CF15T-Polyphenylene-Sulfide-PPS.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.52 g/cc	1.52 g/cc	ASTM D792
Linear Mold Shrinkage, Flow	0.020 - 0.040 cm/cm	0.020 - 0.040 in/in	ASTM D955
Linear Mold Shrinkage, Transverse	0.010 - 0.030 cm/cm	0.010 - 0.030 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	159 MPa	23100 psi	5.1 mm/min; ASTM D638
Tensile Strength, Yield	159 MPa	23100 psi	5.1 mm/min; ASTM D638
Elongation at Break	1.0 %	1.0 %	Type I, 5.1 mm/min; ASTM D638
Tensile Modulus	26.8 GPa	3890 ksi	Type I, 5.1 mm/min; ASTM D638
Flexural Strength	248 MPa	36000 psi	1.3 mm/min; ASTM D790
Flexural Modulus	20.7 GPa	3000 ksi	1.3 mm/min; ASTM D790
Izod Impact, Notched	0.590 J/cm @Thickness 6.35 mm, Temperature 23.0 °C	1.11 ft-lb/in @Thickness 0.250 in, Temperature 73.4 °F	Injection Molded; ASTM D256A
Coefficient of Friction, Dynamic	0.16	0.16	vs. Steel - Dynamic; ASTM D1894
Coefficient of Friction, Static	0.19	0.19	vs. Steel - Static; ASTM D1894

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	110 µm/m-°C	61.1 µin/in-°F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	278 °C @Thickness 6.35 mm	532 °F @Thickness 0.250 in	Unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	227 °C @Thickness 6.35 mm	441 °F @Thickness 0.250 in	Unannealed; ASTM D648

Thermal Properties	Metric	English	Comments
Electrical Properties	Metric	English	Comments
Volume Resistivity	1000 ohm-cm - 1e+05	1000 ohm-cm - 1e+05	ASTM D257
Surface Resistance	1000 ohm - 1e+05	1000 ohm - 1e+05	ASTM D257

Processing Properties	Metric	English	Comments
Drying Temperature	121 °C	250 °F	
Dry Time	2.00 hour	2.00 hour	

Descriptive Properties	Value	Comments
Features	Electrically Conductive	
	Good Chemical Resistance	
	Good Wear Resistance	
	High Heat Resistance	
	High Rigidity	
	Linear Polymer Structure	
	Lubricated	
	Semi Crystalline	
Forms	Pellets	
Generic Material	PPS	
Generic Name	Polyphenylene Sulfide (PPS)	
Processing Method	Injection Molding	
Regional Availability	Africa & Middle East	
	Asia Pacific	
	Europe	
	North America	
	South America	
RoHS Compliance	RoHS Compliant	
Uses	Appliance Components	

Descriptive Properties	Automotive Applications Value	Comments
	Bearings	
	Business Equipment	
	Consumer Applications	
	Conveyor Parts	
	Gears	
	Industrial Applications	
	Printer Parts	
	Pulleys	
	Rollers	

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China