

# Plaslube® PPS/F CF30 TL15 BK

Polyphenylene Sulfide

Techmer Engineered Solutions

## Message:

Plaslube® PPS/F CF30 TL15 BK is a Polyphenylene Sulfide (PPS) product filled with 30% carbon fiber. It can be processed by injection molding and is available in North America.

Characteristics include:

Flame Rated

Lubricated

Wear Resistant

General Information			
Filler / Reinforcement	Carbon Fiber,30% Filler by Weight		
Additive	PTFE Lubricant		
Features	Good Wear Resistance		
	Low Friction		
	Lubricated		
Appearance	Black		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.57	g/cm <sup>3</sup>	ASTM D792
Molding Shrinkage - Flow (3.18 mm)	0.20	%	ASTM D955
Water Absorption (24 hr)	0.030	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break)	159	MPa	ASTM D638
Tensile Elongation (Break)	1.5	%	ASTM D638
Flexural Modulus	14100	MPa	ASTM D790
Flexural Strength	174	MPa	ASTM D790
Coefficient of Friction			ASTM D1894
vs. Steel - Dynamic	0.14		
vs. Steel - Static	0.11		
Wear Factor	140	10 <sup>-8</sup> mm <sup>3</sup> /N · m	
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.18 mm)	32	J/m	ASTM D256
Unnotched Izod Impact (3.18 mm)	200	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	260	°C	ASTM D648
CLTE - Flow	1.4E-5	cm/cm/°C	ASTM D696
Flammability	Nominal Value		Test Method

Flame Rating (1.50 mm)	V-0	UL 94
Injection	Nominal Value	Unit
Drying Temperature	163	°C
Drying Time	4.0	hr
Rear Temperature	288 to 304	°C
Middle Temperature	316 to 343	°C
Front Temperature	310 to 332	°C
Nozzle Temperature	316 to 332	°C
Processing (Melt) Temp	324 to 338	°C
Mold Temperature	129 to 163	°C

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#### Recommended distributors for this material

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