

# Plaslube® PES GF30 TL15

Polyethersulfone

Techmer Engineered Solutions

## Message:

Plaslube® PES GF30 TL15 is a Polyethersulfone (PESU) product filled with 30% glass fiber. It can be processed by injection molding and is available in North America.

Characteristics include:

Flame Rated

Lubricated

General Information			
Filler / Reinforcement	Glass Fiber,30% Filler by Weight		
Additive	PTFE Lubricant (15%)		
Features	Lubricated		
Appearance	Colors Available		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.70	g/cm <sup>3</sup>	ASTM D792
Molding Shrinkage - Flow (3.18 mm)	0.15	%	ASTM D955
Water Absorption (24 hr)	0.30	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break)	125	MPa	ASTM D638
Tensile Elongation (Break)	4.0	%	ASTM D638
Flexural Modulus	7580	MPa	ASTM D790
Flexural Strength	172	MPa	ASTM D790
Coefficient of Friction			ASTM D1894
vs. Steel - Dynamic	0.19		
vs. Steel - Static	0.16		
Wear Factor	110	10 <sup>-8</sup> mm <sup>3</sup> /N · m	ASTM D3702
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.18 mm)	85	J/m	ASTM D256
Unnotched Izod Impact (3.18 mm)	370	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	216	°C	
1.8 MPa, Unannealed	210	°C	
CLTE - Flow	3.6E-5	cm/cm/°C	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+16	ohms · cm	ASTM D257
Dielectric Strength <sup>1</sup>	18	kV/mm	ASTM D149

Flammability	Nominal Value	Unit	Test Method
Flame Rating	V-0		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	143	°C	
Drying Time	2.0 to 3.0	hr	
Rear Temperature	343 to 391	°C	
Middle Temperature	343 to 391	°C	
Front Temperature	343 to 391	°C	
Processing (Melt) Temp	332 to 388	°C	
Mold Temperature	138 to 163	°C	
Back Pressure	0.345 to 0.689	MPa	
Screw Speed	50 to 100	rpm	
NOTE			

1. Method A (Short-Time)

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#### Recommended distributors for this material

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