Plaslube® PPS GF30 SL2

Polyphenylene Sulfide

Techmer Engineered Solutions

Message:

Plaslube® PPS GF30 SL2 is a Polyphenylene Sulfide (PPS) product filled with glass 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	Glass Fiber		
Additive	PTFE + Silicone Lubricant		
Features	Good Wear Resistance Lubricated		
Appearance	Colors Available		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	1.58	g/cm³	ASTM D792
Molding Shrinkage - Flow (3.18 mm)	0.35	%	ASTM D955
Water Absorption (24 hr)	0.020	%	ASTM D570
Hardness	**Nominal Value**	**Unit**	**Test Method**
Rockwell Hardness (R-Scale)	122		ASTM D785
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength (Break)	107	MPa	ASTM D638
Tensile Elongation (Break)	1.0	%	ASTM D638
Flexural Modulus	10700	MPa	ASTM D790
Flexural Strength	159	MPa	ASTM D790
Coefficient of Friction			ASTM D1894
vs. Steel - Dynamic	0.16		
vs. Steel - Static	0.14		
Wear Factor	160	10^-8 mm³/N·m	ASTM D3702
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact (23°C, 3.18 mm)	85	J/m	ASTM D256
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	266	°C	
1.8 MPa, Unannealed	260	°C	
CLTE - Flow	1.6E-5	cm/cm/°C	ASTM D696

Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+16	ohms·cm	ASTM D257
Dielectric Strength [1]	22	kV/mm	ASTM D149
Flammability	**Nominal Value**	**Unit**	**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	
NOTE			
1.	Method A (Short-Time)		

Recommended distributors for this material

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