

Plaslube® PPSU GF30 TL10 LE

Polyphenylsulfone
Techmer Engineered Solutions

Message:

Plaslube® PPSU GF30 TL10 LE is a Polyphenylsulfone (PPSU) product filled with 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		
Additive	PTFE Lubricant		
Features	Low Extractables		
	Lubricated		
Appearance	Colors Available		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.50	g/cm ³	ASTM D792
Molding Shrinkage - Flow (3.18 mm)	0.40	%	ASTM D955
Water Absorption (24 hr)	0.70	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	120		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	124	MPa	ASTM D638
Tensile Elongation (Yield)	3.0	%	ASTM D638
Flexural Modulus	7580	MPa	ASTM D790
Flexural Strength	185	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.18 mm)	110	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	216	°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 ¹	19	kV/mm	ASTM D149
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.57 mm)	V-0		UL 94

Injection	Nominal Value	Unit
Drying Temperature	160	°C
Drying Time	3.0	hr
Rear Temperature	357 to 391	°C
Middle Temperature	357 to 391	°C
Front Temperature	357 to 391	°C
Processing (Melt) Temp	343 to 399	°C
Mold Temperature	110 to 149	°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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