

Plaslube® PPA GF30 TL15

Polyphthalamide
Techmer Engineered Solutions

Message:

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

Characteristics include:

- Flame Rated
- Heat Resistant
- Lubricated
- Wear Resistant

General Information			
Filler / Reinforcement	Glass Fiber,30% Filler by Weight		
Additive	PTFE Lubricant (15%)		
Features	Good Wear Resistance		
	High Heat Resistance		
	Low Friction		
	Lubricated		
Appearance	Colors Available		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.55	g/cm ³	ASTM D792
Molding Shrinkage - Flow (3.18 mm)	0.40	%	ASTM D955
Water Absorption (24 hr)	0.20	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break)	170	MPa	ASTM D638
Tensile Elongation (Break)	2.5	%	ASTM D638
Flexural Modulus	9650	MPa	ASTM D790
Flexural Strength	248	MPa	ASTM D790
Coefficient of Friction			ASTM D1894
vs. Steel - Dynamic	0.16		
vs. Steel - Static	0.18		
Wear Factor	34	10 ⁻⁸ mm ³ /N · m	ASTM D3702
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.18 mm)	91	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	301	°C	
1.8 MPa, Unannealed	293	°C	

CLTE - Flow	2.0E-5	cm/cm/°C	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+16	ohms·cm	ASTM D257
Dielectric Strength ¹	20	kV/mm	ASTM D149
Flammability	Nominal Value	Unit	Test Method
Flame Rating (3.00 mm)	HB		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	104	°C	
Drying Time	4.0 to 8.0	hr	
Rear Temperature	327 to 360	°C	
Middle Temperature	327 to 360	°C	
Front Temperature	327 to 360	°C	
Processing (Melt) Temp	316 to 338	°C	
Mold Temperature	93.3 to 149	°C	
Back Pressure	0.00 to 0.345	MPa	
Screw Speed	30 to 60	rpm	
NOTE			
1.	Method A (Short-Time)		

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