

Plaslube® PPA CF30 TL10

Polyphthalamide
Techmer Engineered Solutions

Message:

Plaslube® PPA CF30 TL10 is a Polyphthalamide (PPA) product filled with 30% carbon 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	Carbon Fiber,30% Filler by Weight		
Additive	PTFE Lubricant (10%)		
Features	Good Wear Resistance		
	High Heat Resistance		
	Low Friction		
	Lubricated		
Appearance	Black		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.39	g/cm ³	ASTM D792
Molding Shrinkage - Flow (3.18 mm)	0.10	%	ASTM D955
Water Absorption (24 hr)	0.60	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break)	186	MPa	ASTM D638
Tensile Elongation (Break)	2.6	%	ASTM D638
Flexural Modulus	16500	MPa	ASTM D790
Flexural Strength	283	MPa	ASTM D790
Coefficient of Friction			ASTM D1894
vs. Steel - Dynamic	0.15		
vs. Steel - Static	0.16		
Wear Factor	30	10 ⁻⁸ mm ³ /N · m	ASTM D3702
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.18 mm)	75	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	292	°C	
1.8 MPa, Unannealed	285	°C	

Melting Temperature	296	°C	
CLTE - Flow	2.7E-5	cm/cm/°C	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	10	ohms·cm	ASTM D257
Flammability	Nominal Value	Unit	Test Method
Flame Rating	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	

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