

Plaslube® PA4/6 CF30 TL15

Polyamide 46

Techmer Engineered Solutions

Message:

Plaslube® PA4/6 CF30 TL15 is a Polyamide 46 (Nylon 46) product filled with 30% carbon 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	Carbon Fiber,30% Filler by Weight		
Additive	PTFE Lubricant (15%)		
Features	Good Wear Resistance		
	Low Friction		
	Lubricated		
Appearance	Black		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.43	g/cm ³	ASTM D792
Molding Shrinkage			ASTM D955
Flow : 3.18 mm	0.10 to 0.30	%	
Across Flow : 3.18 mm	0.40 to 0.70	%	
Water Absorption (24 hr)	2.0	%	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	0.13		
vs. Steel - Static	0.12		
Wear Factor	24	10 ⁻⁸ mm ³ /N · m	ASTM D3702
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.18 mm)	69	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	293	°C	
1.8 MPa, Unannealed	285	°C	

Melting Temperature	295	°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	85.0	°C	
Drying Time	4.0 to 8.0	hr	
Rear Temperature	282 to 316	°C	
Middle Temperature	282 to 316	°C	
Front Temperature	282 to 316	°C	
Processing (Melt) Temp	246 to 316	°C	
Mold Temperature	87.8 to 127	°C	
Back Pressure	0.00 to 0.345	MPa	
Screw Speed	40 to 80	rpm	

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Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

