Seflon

PTFE Sheet & Rod

PTFE is a low friction fluoropolymer with outstanding chemical and weathering resistance. The working temp range is -28°C to 260°C. PTFE has the lowest coefficient of any solid and it has no slipstick characteristics; static and dynamic coefficients are equal. Nothing sticks with any strength of PTFE to unheated surfaces. Both virgin and mechanical grades are UV stabilized. Virgin material meets FDA standards.

Properties:

- Approved for food Industries
- Maximum service temperature of 260°C/500°F
- Chemically resistant to all common solvents
- Maintains mechanical strength at high temperatures



Applications:

Petrochemical and chemical processing: PTFE is the material of choice for gaskets, vessel linings, pump interiors, washers, rings, seals, spacers, dip tubes and well-drilling components because it is corrosion resistant and chemically inert; it is unaffected by virtually all acids and caustics and functions in environments to 500 degrees F..

Electrical applications: PTFE is one of the best insulators known. In thin sections, it will insulate to 500 volts per mil. There are grades of PTFE which have even greater dielectric strength. It is frequently used in wire and cable wrap, and to separate conductive surfaces in capacitors. Thick walled close-tolerance extruded tubing is the PTFE shape of choice where machining or drilling long lengths to close tolerances is impossible. Multi-hole tubing can be extruded. PTFE can be machined into standoff insulators, and many different types of high voltage encapsulation devices for electrical components.

Semi-Conductor Industry: PTFE is inert, and its operating temperature range is from minus 350 degrees Fahrenheit to 550 degrees Fahrenheit. When made to ultra pure standards it is the material of choice for various items used in chip manufacturing, including encapsulation devices for quartz heaters, and the like.

Food, Beverage and Pharmaceutical industries: Virgin PTFE is approved by the Food and Drug Administration for use in the food, beverage, cosmetics and pharmaceutical industries. Thin Film and sheets make an inert, no-toxic slide surface without microscopic depressions where microbes can grow. Conveyancing components - profiles, guide rails and slides - can withstand high temperatures inside baking and drying ovens and other heated segments of the food, cosmetics or pharmaceuticals manufacturing processes.

Seflon ®

Properties of PTFE Sheet

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PROPERTIES	UNIT	TEST METHOD	PTFE	
Melting Point	°C	-	327	
Specific Gravity	-	D792	2.14-2.20	
Elongation	%	D638	200-400	
Coefficient of Dynamic friction		0.69MPa		
	-	{7kgf/cm³}	0.1	
		3m/min		
Max. Service Temperature	°C	Unloaded	260	
	MV/m			
Dielectric breakdown strength (Short term)	kV/mm(3.2mm thickness)	D149	19	
Anti arcing property	sec	D495	>300	
Water absorption (24h)	%	D570	0	
Oxygen index	-	D2863	>95	
Effect of direct sunlight	-	-	No	
Effect of weak acid	-	D543	No	
Effect of strong acid	-	D543	No	
Effect of weak alkali	-	D543	No	
Effect of strong alkali	-	D543	No	

Size Available (Note: other sizes can be made upon request)

Sheet
Thick Ler

Thick	Length	Width	
(mm)	(m)	m	
0.05	10	0.30	
0.08	10	0.14	
0.1	10	0.50	
0.2	10	1.00	
0.3	10	1.00	
0.5	10	1.20	
0.6	10	0.50	
0.8	10	1.20	
1	10	1.20	
1.5	10	1.20	
2	10	1.20	
3	10	1.20	
4	10	1.20	
5	10	1.20	
6	10	1.20	

Thick	Length	Width
mm	m	m
1	1.2	1.2
1.5	1.2	1.2
2	1.2	1.2
3	1.2	1.2
4	1.2	1.2
5	1.2	1.2
6	1.2	1.2
8	1.2	1.2
10	1.2	1.2
12	1.2	1.2
15	1.2	1.2
16	1.2	1.2
20	1.2	1.2
25	1.2	1.2

Dia	Dia
mm	mm
3.2	30
3.8	32
4	35
5	38
6	40
8	45
10	50
12	55
13	60
14	65
15	70
16	75
20	80
25	85
28	90





