

PTFE

fluteck[™] P series



— SIZE LIST

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Virgin PTFE extruded rods

Metric sizes

O.D. (mm)	O.D. Tolerance ⁽¹⁾	Standard Length (mm)	Length Tolerance ⁽¹⁾
4	+0.60 -0.00 mm		
5	+0.60 -0.00 mm		
6	+0.60 -0.00 mm		
7	+0.60 -0.00 mm		
8	+0.60 -0.00 mm		
9	+0.60 -0.00 mm		
10	+6.0 -0.0 %		
11	+6.0 -0.0 %		
12	+6.0 -0.0 %		
13	+6.0 -0.0 %		
14	+6.0 -0.0 %		
15	+6.0 -0.0 %		
16	+6.0 -0.0 %		
17	+6.0 -0.0 %		
18	+6.0 -0.0 %		
19	+6.0 -0.0 %		
20	+6.0 -0.0 %		
22	+6.0 -0.0 %		
25	+6.0 -0.0 %		
28	+6.0 -0.0 %		
30	+6.0 -0.0 %		
32	+6.0 -0.0 %		
38	+6.0 -0.0 %		
40	+6.0 -0.0 %		
42	+6.0 -0.0 %		
45	+6.0 -0.0 %		
50	+6.0 -0.0 %		
55	+6.0 -0.0 %		
60	+6.0 -0.0 %		
65	+6.0 -0.0 %		
70	+6.0 -0.0 %		
75	+6.0 -0.0 %		
80	+6.0 -0.0 %		
85	+6.0 -0.0 %		
90	+6.0 -0.0 %		
100	+6.0 -0.0 %		
110	+6.0 -0.0 %		
120	+6.0 -0.0 %		
130	+6.0 -0.0 %		
140	+6.0 -0.0 %		
150	+6.0 -0.0 %		
160	+6.0 -0.0 %		

(1) According to ISO 13000 standard and to corporate standard specifications

Virgin PTFE extruded rods

Imperial sizes

O.D. (inch)	O.D. Tolerance ⁽¹⁾	Standard Length (inch)	Length Tolerance ⁽¹⁾
* .187"	+ .002" - 0"	6 ft 12 ft	
* .250"	+ .002" - 0"		
* .312"	+ .002" - 0"		
* .375"	+ .002" - 0"		
* .415"	+ .002" - 0"		
* .437"	+ .002" - 0"		
* .447"	+ .002" - 0"		
* .465"	+ .002" - 0"		
* .485"	+ .002" - 0"		
* .500"	+ .002" - 0"		
* .562"	+ .002" - 0"		
* .625"	+ .002" - 0"		
* .750"	+ .002" - 0"		
* .758"	+ .002" - 0"		
* .773"	+ .002" - 0"		
* .812"	+ .002" - 0"		
* .825"	+ .002" - 0"		
* .875"	+ .002" - 0"		
* .880"	+ .002" - 0"		
* .898"	+ .002" - 0"		
* 1.000"	+ .002" - 0"		
* 1.010"	+ .005" - 0"		
* 1.125"	+ .005" - 0"		
* 1.250"	+ .005" - 0"		
* 1.375"	+ .005" - 0"		
* 1.500"	+ .005" - 0"		
* 1.625"	+ .010" - 0"		
* 1.750"	+ .010" - 0"		
* 2.000"	+ .010" - 0"		
2.125"	+4% -0	6 ft	+2.0% - .0%
2.250"	+4% -0		
2.375"	+4% -0		
2.500"	+4% -0		
2.625"	+4% -0		
2.750"	+4% -0		
2.875"	+4% -0		
3.000"	+4% -0		
3.125"	+4% -0		
3.250"	+4% -0		
3.500"	+4% -0		
3.750"	+4% -0		
4.000"	+4% -0		
4.125"	+4% -0		

**Additionally
Standard materials
On request**

Precision ground rods available on request
Virgin PTFE, standard compounds
Custom sizes and special compounds

(1) According to ISO 13000 standard and to corporate standard specifications
*Precision ground

Virgin PTFE extruded tubes

Metric sizes

O.D. (mm)		I.D. (mm)									Tolerance ⁽¹⁾	Length (mm)
10	4	5	-	-	-	-	-	-	-	-	O.D. +6.0% - 0.0%	1000 2000
11	4	5	6	8	-	-	-	-	-	-		
12	5	6	7	8	-	-	-	-	-	-		
13	5	6	7	8	-	-	-	-	-	-		
14	5	6	8	9	-	-	-	-	-	-		
15	4	5	6	8	10	12	-	-	-	-		
16	5	6	8	10	12	-	-	-	-	-		
17	5	6	8	10	12	-	-	-	-	-		
18	8	10	11	12	13	14	-	-	-	-		
19	5	6	8	10	12	14	-	-	-	-		
20	6	8	10	12	14	15	-	-	-	-		
21	6	8	10	12	14	15	-	-	-	-		
22	7	13	14	15	16	-	-	-	-	-		
23	6	8	10	12	14	15	16	-	-	-		
24	10	12	15	17	-	-	-	-	-	-		
25	14	15	16	18	-	-	-	-	-	-		
26	8	10	12	14	15	16	18	-	-	-		
27	14	18	20	-	-	-	-	-	-	-		
28	10	12	15	17	18	20	22	-	-	-		
29	8	10	12	15	18	20	22	-	-	-		
30	17	21	24	25	-	-	-	-	-	-		
31	8	10	12	14	18	20	22	24	25	-		
32	10	12	15	18	20	22	24	25	28	-		
33	19	23	24	25	26	-	-	-	-	-		
34	24	26	28	30	-	-	-	-	-	-		
35	10	12	15	18	20	22	25	28	30	-		
38	20	22	25	28	30	32	34	-	-	-		
40	10	12	15	18	20	25	28	30	32	-		
42	12	15	20	25	28	30	32	35	-	-		
45	10	12	15	18	20	25	28	30	35	38		
48	15	28	30	35	38	40	42	-	-	-		
50	15	20	25	28	30	32	35	38	40	42		
52	28	30	32	38	40	-	-	-	-	-		
55	20	25	28	30	32	35	40	45	-	-		
58	34	42	45	48	50	-	-	-	-	-		
60	20	25	30	35	40	45	50	-	-	-		
65	20	25	30	35	40	45	50	55	-	-		
70	20	25	30	35	40	45	50	55	60	-		
75	20	25	30	35	40	45	50	55	60	65		
80	40	45	50	55	60	65	70	-	-	-		
85	40	45	50	55	60	65	70	75	-	-		
90	45	50	60	65	70	75	80	-	-	-		
95	45	50	55	60	70	75	80	85	-	-		
100	50	60	65	70	75	75	80	85	90	-		
105	80	85	90	95	100	-	-	-	-	-		
110	80	85	90	95	100	105	-	-	-	-		
115	90	95	100	105	110	-	-	-	-	-		
120	90	95	100	105	110	115	-	-	-	-		
125	80	85	90	95	100	-	-	-	-	-		
130	100	105	110	115	120	-	-	-	-	-		
140	100	110	115	120	130	-	-	-	-	-		
150	125	140	-	-	-	-	-	-	-	-		
												1000

(1) According to ISO 13000 standard and to corporate standard specifications

Virgin PTFE extruded tubes

Imperial sizes

O.D. (inch)		I.D. (inch)					Tolerance ⁽¹⁾	Length (inch)
*.373"	+0.002" - 0"	.249"	-	-	-	-	-0.02" + 0"	6 ft 12 ft
*.492"	+0.002" - 0"	.254"	-	-	-	-	-0.02" + 0"	
*.5615"	+0.002" - 0"	.4365"	.3135"	.2361"	-	-	-0.02" + 0"	
*.625"	+0.002" - 0"	.500"	.3735"	.250"	-	-	-0.02" + 0"	
*.687"	+0.002" - 0"	.438"	.423"	-	-	-	-0.02" + 0"	
*.750"	+0.002" - 0"	.645"	.625"	.5475"	.500"	-	-0.02" + 0"	
*.784"	+0.002" - 0"	.548"	-	-	-	-	-0.02" + 0"	
*.842"	+0.002" - 0"	.590"	-	-	-	-	-0.04" + 0"	
*.874"	+0.002" - 0"	.626"	.500"	.4725"	-	-	-0.04" + 0"	
*.9375"	+0.002" - 0"	.7075"	.625"	.500"	-	-	-0.04" + 0"	
*1.000"	+0.002" - 0"	.625"	.500"	.375"	-	-	-0.04" + 0"	
*1.050"	+0.005" - 0"	.8912"	.7075"	.625"	.500"	-	-0.04" + 0"	
*1.0625"	+0.005" - 0"	.4725"	.7085"	-	-	-	-0.04" + 0"	
*1.125"	+0.005" - 0"	.8662"	.750"	.7025"	.500"	-	-0.04" + 0"	
*1.187"	+0.005" - 0"	.866"	.7875"	.7625"	.70875"	-	-0.06" + 0"	
*1.250"	+0.005" - 0"	1.000"	.866"	.750"	.625"	.500"	-0.06" + 0"	
*1.3125"	+0.005" - 0"	1.050"	1.000"	.750"	-	-	-0.06" + 0"	
*1.375"	+0.005" - 0"	1.125"	1.100"	1.000"	.6875"	-	-0.06" + 0"	
*1.435"	+0.005" - 0"	1.180"	1.105"	1.000"	.866"	-	-0.06" + 0"	
*1.500"	+0.005" - 0"	1.375"	1.300"	1.105"	1.000"	.866"	-0.06" + 0"	
*1.562"	+0.010" - 0"	1.250"	1.1875"	-	-	-	-0.06" + 0"	
*1.575"	+0.010" - 0"	1.180"	-	-	-	-	-0.06" + 0"	
*1.625"	+0.010" - 0"	1.260"	-	-	-	-	-0.06" + 0"	
*1.750"	+0.010" - 0"	1.500"	1.4175"	1.250"	1.125"	1.000"	-0.06" + 0"	
*1.7715"	+0.010" - 0"	0.9845"	-	-	-	-	-0.06" + 0"	
*1.8115"	+0.010" - 0"	1.400"	-	-	-	-	-0.06" + 0"	
*1.875"	+0.010" - 0"	1.500"	1.250"	-	-	-	-0.06" + 0"	
*1.935"	+0.010" - 0"	1.575"	1.500"	1.40"	1.1875"	-	-0.06" + 0"	
*2.000"	+0.010" - 0"	1.750"	1.625"	1.50"	1.2500"	1.000"	-0.08" + 0"	
2.065"	+4% - 0	1.575"	-	-	-	-	-0.08" + 0"	
2.125"	+4% - 0	1.835"	-	-	-	-	-0.08" + 0"	
2.155"	+4% - 0	1.7725"	-	-	-	-	-0.08" + 0"	
2.250"	+4% - 0	1.8575"	1.750"	1.625"	1.500"	1.250"	-0.08" + 0"	
2.3625"	+4% - 0	2.000"	1.9685"	1.7715"	-	-	-0.08" + 0"	
2.375"	+4% - 0	2.1075"	1.935"	1.750"	1.500"	-	-0.08" + 0"	
2.500"	+4% - 0	2.235"	2.000"	1.875"	1.250"	-	-0.08" + 0"	
2.559"	+4% - 0	1.7715"	-	-	-	-	-0.08" + 0"	
2.750"	+4% - 0	2.365"	2.000"	-	-	-	-0.08" + 0"	
2.937"	+4% - 0	3.543"	-	-	-	-	-0.08" + 0"	
3.000"	+4% - 0	2.5985"	2.480"	2.365"	2.245"	2.000"	-0.08" + 0"	
3.250"	+4% - 0	2.6375"	2.245"	-	-	-	-0.08" + 0"	
3.3465"	+4% - 0	2.9525"	2.755"	-	-	-	-0.08" + 0"	
3.5435"	+4% - 0	2.9525"	-	-	-	-	-0.08" + 0"	
3.740"	+4% - 0	3.3465"	2.9525"	-	-	-	-0.08" + 0"	
4.000"	+4% - 0	3.500"	3.000"	2.000"	-	-	-4" + 0"	
5.000"	+4% - 0	4.000"	-	-	-	-	-4" + 0"	
5.2685"	+4% - 0	4.850"	-	-	-	-	-4" + 0"	
6.000"	+4% - 0	4.500"	-	-	-	-	-4" + 0"	

Standard materials

Virgin PTFE, standard compounds

On request

Custom sizes and special compounds

(1) According to ISO 13000 standard and to corporate standard specifications

*Precision ground

Virgin PTFE molded rods

Metric sizes

ø (mm)	Tolerance ⁽¹⁾	Length (mm)	ø (mm)	Tolerance ⁽¹⁾	Length (mm)
30	+6.0% - 0.0%	150	245	+6.0% - 0.0%	100 150 200 250 300
35	+6.0% - 0.0%	150 200 250	250	+6.0% - 0.0%	
40	+6.0% - 0.0%		255	+6.0% - 0.0%	
45	+6.0% - 0.0%	100 150 200 250 300	260	+6.0% - 0.0%	
50	+6.0% - 0.0%		265	+6.0% - 0.0%	
55	+6.0% - 0.0%		270	+6.0% - 0.0%	
60	+6.0% - 0.0%		280	+6.0% - 0.0%	
65	+6.0% - 0.0%		285	+6.0% - 0.0%	
70	+6.0% - 0.0%		290	+6.0% - 0.0%	
75	+6.0% - 0.0%		300	+6.0% - 0.0%	
80	+6.0% - 0.0%		310	+6.0% - 0.0%	
85	+6.0% - 0.0%		315	+6.0% - 0.0%	
90	+6.0% - 0.0%		320	+6.0% - 0.0%	
95	+6.0% - 0.0%	330	+6.0% - 0.0%	50 100 150 200	
100	+6.0% - 0.0%	335	+6.0% - 0.0%		
105	+6.0% - 0.0%	340	+6.0% - 0.0%		
110	+6.0% - 0.0%	345	+6.0% - 0.0%		
115	+6.0% - 0.0%	350	+6.0% - 0.0%		
120	+6.0% - 0.0%	365	+6.0% - 0.0%		
125	+6.0% - 0.0%	380	+6.0% - 0.0%		
130	+6.0% - 0.0%	395	+6.0% - 0.0%		
135	+6.0% - 0.0%	400	+6.0% - 0.0%		
140	+6.0% - 0.0%	410	+6.0% - 0.0%		
145	+6.0% - 0.0%	420	+6.0% - 0.0%	50 80 100	
150	+6.0% - 0.0%	435	+6.0% - 0.0%		
155	+6.0% - 0.0%	450	+6.0% - 0.0%		
160	+6.0% - 0.0%	460	+6.0% - 0.0%		
165	+6.0% - 0.0%	470	+6.0% - 0.0%		
170	+6.0% - 0.0%	480	+6.0% - 0.0%		
175	+6.0% - 0.0%	500	+6.0% - 0.0%		
180	+6.0% - 0.0%	525	+6.0% - 0.0%		
185	+6.0% - 0.0%	540	+6.0% - 0.0%		
190	+6.0% - 0.0%	560	+6.0% - 0.0%		
195	+6.0% - 0.0%	685	+6.0% - 0.0%	50 80 100	
200	+6.0% - 0.0%	600	+6.0% - 0.0%		
205	+6.0% - 0.0%	620	+6.0% - 0.0%		
210	+6.0% - 0.0%	635	+6.0% - 0.0%		
215	+6.0% - 0.0%	650	+6.0% - 0.0%		
220	+6.0% - 0.0%	690	+6.0% - 0.0%		
225	+6.0% - 0.0%	700	+6.0% - 0.0%		
230	+6.0% - 0.0%	720	+6.0% - 0.0%		
235	+6.0% - 0.0%	750	+6.0% - 0.0%		
240	+6.0% - 0.0%	770	+6.0% - 0.0%		

(1) According to ISO 13000 standard and to corporate standard specifications

Virgin PTFE molded rods

Imperial sizes

ø (inch)	Tolerance ⁽¹⁾	Length (inch)	ø (inch)	Tolerance ⁽¹⁾	Length (inch)
1.181"	+4% - 0	6"	9.000"	+4% - 0	4" 6" 8" 10" 12"
1.250"	+4% - 0	6" 8" 10"	9.250"	+4% - 0	
1.373"	+4% - 0		9.500"	+4% - 0	
1.625"	+4% - 0		9.750"	+4% - 0	
1.750"	+4% - 0	4" 6" 8" 10" 12"	10.000"	+4% - 0	
1.870"	+4% - 0		10.250"	+4% - 0	
2.000"	+4% - 0		10.500"	+4% - 0	
2.125"	+4% - 0		10.750"	+4% - 0	
2.250"	+4% - 0		11.000"	+4% - 0	
2.375"	+4% - 0		11.250"	+4% - 0	
2.500"	+4% - 0		11.500"	+4% - 0	
2.625"	+4% - 0		11.750"	+4% - 0	
2.750"	+4% - 0		12.000"	+4% - 0	
2.875"	+4% - 0		12.250"	+4% - 0	
3.000"	+4% - 0		12.500"	+4% - 0	
3.125"	+4% - 0		13.000"	+4% - 0	
3.250"	+4% - 0		13.500"	+4% - 0	
3.500"	+4% - 0		14.000"	+4% - 0	
3.750"	+4% - 0		14.500"	+4% - 0	2" 4" 6" 8"
4.000"	+4% - 0	15.000"	+4% - 0		
4.125"	+4% - 0	4" 6" 8" 10" 12"	15.500"	+4% - 0	
4.250"	+4% - 0		16.000"	+4% - 0	
4.500"	+4% - 0		16.500"	+4% - 0	
4.625"	+4% - 0	2" 4" 6" 8"	17.000"	+4% - 0	
4.725"	+4% - 0		17.750"	+4% - 0	
5.000"	+4% - 0		18.000"	+4% - 0	
5.250"	+4% - 0		18.875"	+4% - 0	
5.500"	+4% - 0		19.625"	+4% - 0	
5.750"	+4% - 0		20.500"	+4% - 0	
6.000"	+4% - 0		20.625"	+4% - 0	
6.250"	+4% - 0		21.250"	+4% - 0	
6.500"	+4% - 0		22.000"	+4% - 0	
6.750"	+4% - 0		23.000"	+4% - 0	
7.000"	+4% - 0		23.625"	+4% - 0	
7.250"	+4% - 0		2" 3" 4"	25.625"	+4% - 0
7.500"	+4% - 0			27.125"	+4% - 0
7.750"	+4% - 0			27.500"	+4% - 0
8.000"	+4% - 0			28.000"	+4% - 0
8.250"	+4% - 0	28.375"		+4% - 0	
8.500"	+4% - 0	29.500"		+4% - 0	
8.750"	+4% - 0	30.250"		+4% - 0	

Standard materials
On request

Virgin PTFE, standard compounds
Custom sizes and special compounds

(1) According to corporate standard specifications

Virgin PTFE molded tubes

Metric sizes

O.D. (mm)	I.D. (mm)	O.D. (mm)	I.D. (mm)	O.D. (mm)	I.D. (mm)	O.D. (mm)	I.D. (mm)	O.D. (mm)	I.D. (mm)	O.D. (mm)	I.D. (mm)	O.D. (mm)	I.D. (mm)
35	15	75	15	87.5	40	100	25	110	55	125	40	135	100
	20		20		50		27.5		57.5		42.5		105
40	15		25		60		30		60		45		110
	20		27.5		70		35		65		50		115
	25	30	15	40	70	52.5	120						
45	15	75	35	90	20	100	45	110	75	125	55	140	20
	20		40		25		47.5		80		60		35
	25		45		27.5		50		82.5		65		40
	27.5		47.5		30		55		85		70		45
	30		50		32.5		57.5		90		75		50
50	15	77.5	50	90	35	100	60	110	95	125	77.5	140	55
	20		55		40		65		80		60		
	25		60		42.5		70		85		65		
	27.5		40		45		75		90		70		
	30		45		47.5		80		95		75		
	35		50		50		85		100		80		
55	15	80	55	90	52.5	105	15	115	40	130	105	140	85
	20		60		55		20		45		110		90
	25		15		57.5		25		47.5		120		95
	27.5		20		60		27.5		50		125		100
	30		25		62.5		30		55		130		105
	32.5		27.5		65		35		60		135		110
	35		30		67.5		40		65		140		115
	40		35		70		45		67.5		145		120
60	15	80	40	95	72.5	105	50	115	70	125	60	145	125
	20		45		75		55		72.5		65		
	25		50		15		57.5		75		70		45
	27.5		52.5		20		60		80		75		50
	30		55		25		65		82.5		80		60
	32.5		60		27.5		70		85		85		65
	35		65		30		75		90		90		70
	40		40		35		80		95		95		75
	42.5		45		40		82.5		100		100		80
	45		50		45		85		105		105		85
65	15	82.5	55	95	50	107.5	90	120	30	132.5	110	145	90
	20		60		52.5		32.5		40		115		95
	25		65		55		47.5		45		120		100
	27.5		15		60		50		50		125		105
	30		20		65		52.5		55		130		110
	35		25		70		55		60		135		115
	40	27.5	75	57.5	65	140	120						
	42.5	30	80	60	70	145	125						
	45	32.5	27.5	65	75	150	130						
	47.5	35	45	70	80	155	135						
	50	40	45	75	85	160	140						
	70	15	85	42.5	97.5	50	110	80	125	90	135	50	150
20		45		55		85		92.5		55		45	
25		47.5		60		90		95		60		50	
27.5		50		65		20		100		65		55	
30		52.5		70		25		105		70		60	
35		55		75		30		110		75		65	
40		57.5	80	35	115	80	70						
45		60	82.5	40	120	85	75						
47.5		65	15	45	125	90	80						
50		70	20	50	130	95	85						
55		75	25	55	135	100	90						
60		80	30	60	140	105	95						

Virgin PTFE molded tubes

O.D. (mm)	I.D. (mm)	O.D. (mm)	I.D. (mm)	O.D. (mm)	I.D. (mm)	O.D. (mm)	I.D. (mm)	O.D. (mm)	I.D. (mm)	O.D. (mm)	I.D. (mm)	O.D. (mm)	I.D. (mm)	
150	90	165	60	175	155	190	110	200	180	215	160	230	125	
	95		70		160		115		185		165		135	
	100		75	180	30		190	120	205		80		170	140
	105		80		40		125	85			175		145	
	110		85		50		130	100			180		150	
	115		90		60		135	105			185		155	
	120		95		70		140	110			190		160	
	125		100		80		145	115			195		165	
	130		105		85		150	120			200		170	
	135		110		90		155	125			205		175	
155	25	170	115	180	95	195	160	210	130	220	70	235	180	
	40		120		100		165		135		80		185	
	50		125		105		170		140		90		190	
	55		130		110		175		145		100		195	
	60		135		115		180		150		110		200	
	65		140		120		185		155		115		205	
	70		145		125		190		160		120		210	
	75		150		130		195		165		125		215	
	80		40		135		115		170		135		135	215
	85		50		140		120		175		140		140	110
	90		60	145	125	180	145	145	115					
	95		70	150	130	185	150	150	120					
	100		80	155	135	190	155	155	125					
	105		90	160	140	195	160	160	130					
	110		95	165	145	200	165	165	135					
	115		100	60	150	205	170	170	140					
	120		105	65	155	210	175	175	145					
	125		110	70	160	215	180	180	150					
130	115	75	165	220	185	185	155							
135	120	80	170	225	190	190	160							
140	125	85	175	230	195	195	165							
160	40	175	130	185	90	200	180	210	135	225	205	240	190	
	50		135		100		185		140		110		195	
	55		140		105		190		145		120		200	
	60		145		110		195		150		125		205	
	65		150		115		200		155		130		210	
	70		155		120		205		160		135		215	
	75		55		125		210		165		140		220	
	80		60		130		215		170		145		225	
	85		65		135		220		175		150		230	
	90		70		140		225		180		155		235	
	95		75	145	230	185	160	240						
	100		80	150	235	190	165	245						
	105		85	155	240	195	170	250						
	110		90	160	245	200	175	255						
	115		95	165	250	205	180	260						
	120		100	170	255	210	185	265						
	125		105	175	260	215	190	270						
	130		110	40	180	220	195	275						
135	115	50	185	225	200	280								
140	120	60	190	230	205	285								
145	125	70	195	235	210	290								
150	130	80	200	240	215	295								
165	35	140	140	190	90	200	165	215	145	230	100	200		
	40		145		100		170		150		110	205		
	50		150		105		175		155		120	210		

Virgin PTFE molded tubes

O.D. (mm)	I.D. (mm)	O.D. (mm)	I.D. (mm)	O.D. (mm)	I.D. (mm)	O.D. (mm)	I.D. (mm)	O.D. (mm)	I.D. (mm)	O.D. (mm)	I.D. (mm)	O.D. (mm)	I.D. (mm)
240	215	255	205	270	160	280	255	300	185	310	255	330	260
	220		210		170		260		190		260		275
	222.5		215		175		265		195		265		280
	225		220		185		270		200		270		285
245	150	260	222.5	270	190	285	160	300	205	315	275	332.5	290
	155		225		195		165		210		280		295
	165		230		200		185		215		285		300
	170		235		205		190		220		290		305
	175		240		210		215		222.5		295		310
	180		245		215		220		225		200		315
	185		250		220		225		230		222.5		222.5
	190		255		225		230		235		230		235
	195	260	230	235	240	240	245						
	200	265	235	240	245	250	250						
	205	270	240	245	250	255	255						
	210	275	245	250	255	260	260						
	215	280	250	255	260	265	270						
	220	285	255	260	265	270	275						
	222.5	290	260	265	270	275	285						
	225	295	265	270	275	280	285						
230	300	270	275	280	285	290							
250	100	265	190	275	170	290	160	305	350	320	297.5	340	300
	110		195		175		195		185		300		305
	120		200		180		200		190		180		310
	130		205		200		210		205		195		315
	140		210		205		215		210		205		245
	145		215		210		220		215		215		260
	150		220		215		222.5		220		225		270
	155		225		220		225		225		230		275
	160		230		225		230		235		240		290
	165		235		230		235		240		245		300
	170	240	235	240	245	250	305						
	175	245	240	245	250	255	310						
	180	250	245	250	255	260	320						
	185	255	250	255	260	265	190						
	190	260	255	260	265	270	210						
	195	265	260	265	270	275	220						
	200	270	265	270	275	280	240						
	205	275	270	275	280	285	245						
	210	280	275	280	285	290	250						
	215	285	280	285	290	295	255						
220	290	285	290	295	300	260							
222.5	295	290	295	300	305	265							
225	300	295	300	305	310	265							
230	305	300	305	310	315	270							
235	310	305	310	315	320	275							
255	150	270	225	280	210	295	250	310	205	325	280	340	285
	155		230		215		255		210		285		290
	170		235		220		260		215		290		295
	175		240		222.5		270		222.5		295		300
	180		245		230		280		230		300		305
	185		250		235		290		235		305		310
	190		255		240		300		240		310		315
	195		260		245		310		245		315		320
200	265	250	320	250	320	325							

Virgin PTFE molded tubes

O.D. (mm)	I.D. (mm)	O.D. (mm)	I.D. (mm)	O.D. (mm)	I.D. (mm)	O.D. (mm)	I.D. (mm)	O.D. (mm)	I.D. (mm)	O.D. (mm)	I.D. (mm)	O.D. (mm)	I.D. (mm)
345	195	360	330	380	350	410	320	440	355	465	420	490	430
	215		332.5		355		325		365		425		435
	220		335		360		330		375		430		445
	235		340		365		340		380		435		455
	240		345		260		345		390		440		460
	250		250		275		355		395		445		465
	255	255	280	360	400	450	470						
	260	275	290	365	405	355	472.5						
	265	290	295	370	410	365	385						
	270	300	300	375	417.5	385	400						
	280	310	310	380	420	390	410						
	285	320	320	385	425	395	420						
	290	325	325	390	300	400	435						
	295	330	330	395	320	410	440						
	300	340	335	330	340	420	445						
	305	342.5	340	340	350	435	450						
	310	345	345	345	355	445	455						
	315	350	350	350	365	455	460						
	320	245	355	415	380	340	465						
	350	325	255	360	385	355	470						
330		260	365	390	360	475							
200		275	372.5	395	365	477.5							
210		280	255	400	390	480							
230		290	290	330	410	395	482.5						
235		295	300	340	415	410	485						
245		300	310	355	420	420	420						
250		310	325	422.5	365	425	435						
255		320	330	375	427.5	430	455						
260		325	335	390	430	435	470						
265		330	340	400	400	440	485						
270		335	350	405	320	445	495						
275		340	355	310	340	450	390						
280		345	360	325	355	455	410						
290		347.5	365	340	375	460	435						
295		352.5	370	355	385	465	445						
300		355	375	365	390	355	455						
305		230	380	425	395	360	460						
310		250	295	390	400	365	465						
315		255	300	397.5	410	385	470						
360	320	260	315	400	415	390	475						
	325	265	320	405	420	405	480						
	330	275	325	410	425	410	485						
	335	280	330	340	430	420	495						
	220	290	335	355	435	430	435						
	260	295	340	365	440	455	455						
	275	300	345	375	445	460	470						
	280	305	355	390	455	465	485						
	290	310	360	437.5	340	470	495						
	295	315	365	400	355	475	500						
	300	320	370	410	365	480	505						
	305	325	375	420	385	385	515.5						
	310	330	390	420	390	400	390						
	315	335	270	440	395	410	410						
320	340	295	340	400	415	415							
325	345	300	345	415	420	435							

Virgin PTFE molded tubes

O.D. (mm)	I.D. (mm)	O.D. (mm)	I.D. (mm)	O.D. (mm)	I.D. (mm)	O.D. (mm)	I.D. (mm)	O.D. (mm)	I.D. (mm)	O.D. (mm)	I.D. (mm)	O.D. (mm)	I.D. (mm)	
530	455	570	455	610	560	655	505	700	695	760	715	860	765	
	460		460		570		505		677.5		730		795	
	470		470		575		580		550		620		815	
	475		475		580		585		600		655		730	
	480		495		582.5		590		615		710		750	
	485		505		585		595		630		720		765	
	490		515		590		600		635		730		785	
	495		520		490		605		650		735		795	
	500		530		505		615		665		740		815	
	505		535		515		620		670		655		795	
	510		540		520		630		675		690		815	
	515		545		540		635		680		710		830	
			550		550		550		540		707.5		715	730
540	390	580	495	620	560	670	550	715	707.5	770	730	880	795	
	410		515		570		580		635		740		810	
	420		520		580		585		655		742.5		815	
	425		540		585		600		680		745		825	
	435		550		590		605		585		750		830	
	455		560		595		620		605		620		835	
	470		565		605		630		680		670		860	
	485		485		570		635		690		690		765	
	495		495		585		640		605		700		795	
	505		505		595		650		635		710		815	
	510		515		605		550		655		715		830	
	515		520		637.5		585		670		730		850	
	520		530		550		600		720		735		880	
			540		560		605				740		830	
	550	570	615		750	840								
545	435	590	530	627.5	560	680	605	720	690	790	735	900	830	
	455		540		570		605		690		740		830	
	470		550		580		615		695		750		840	
	485		560		585		620		700		760		845	
	495		565		585		630		605		765		850	
	505		570		590		635		635		770		860	
	510		454		595		640		730		655		785	
	515		470		600		650		680		700		880	
	520		475		605		660		690		710		795	
	522.5		485		530		585		710		760		815	
	525		505		560		605		635		765		830	
			515		580		620		655		770		850	
			520		585		635		680		775		860	
			540		590		655		685		780		870	
	550	595	690	690	785	835								
55	485	600	550	640	595	682.5	580	740	690	815	795	915	830	
	495		560		600		580		700		795		850	
	515		565		605		605		710		800		880	
	520		570		610		615		715		730		815	
			585		615		620		720		815		890	
			460		620		620		630		725		820	830
			470		585		650		650		655		720	850
			495		480		590		655		680		735	875
			500		485		595		660		690		740	880
			505		485		595		660		690		740	880
			515		495		600		670		710		765	895
			520		505		605		605		620		785	900
			535		515		610		605		655		790	830
			540		520		615		620		680		795	860
	542.5	530	620	635	690	800	880							
	545	540	625	655	700	805	885							
570	445	550	630	665	710	815	900							

Virgin PTFE molded tubes

O.D. (mm)	I.D. (mm)	O.D. (mm)	I.D. (mm)	O.D. (mm)	I.D. (mm)	O.D. (mm)	I.D. (mm)	O.D. (mm)	I.D. (mm)	O.D. (mm)	I.D. (mm)	O.D. (mm)	I.D. (mm)
945	830	1000	880	1050	1020	1170	1120	1320	1215	1450	1300	1760	1710
	880		920	1070	1015		1145		1235		1380		1660
	900		930		1200	1020	1020		1290		1400	1810	1710
	915		940	1035		1330	1290	1520	1420	1760			
	920		945	1035			1145		1295	1470	1710		
	930		950	1060		1340	1150	1570	1145	1420	1850	1710	
950	880	1025	955	1120	830		1165		1290	1470	1800		
	890		970		880	1180	1310	1520	1760				
	900		910		900	1215	1060	1620	1320	1910	1470	1800	
	910		985		955		1145		1200		1520	1850	
	965		925		1050		920	1020	1020	1390	1165	1670	1235
880		925	1040	1200			1300	1520	1850				
885		940	1055	1240		1185	1710	1310	2010	1570	1900		
900		945	1060			1215		1330		1610	1850		
925		970	1075	1255		1095		1710		1355	2010	1570	1900
940		985	1080			1165	1370		1610	1950			
945		990	1095	1295		1440	1760	1215	1390	1660			
950	1000	1095	1235		1410			1610					
1000	860	1005	1120		1265			1420	1660				

Virgin PTFE sheets

Metric sizes

	Thickness (mm)	Thickness Tolerance ⁽¹⁾ (mm)	Width / Length Tolerance ⁽¹⁾	Standard Sizes (mm)	Additional Sizes (mm)
Skived	0.5	+10% - 0.0	+3.0% - 0.0%	600x600 1000x1000 1200x1200 1500x1500	on request
	1	+10% - 0.0			
	1.5	+10% - 0.0			
	2	+10% - 0.0			
	2.5	+10% - 0.0			
	3	+10% - 0.0			
	4.5	+10% - 0.0			
	5	+10% - 0.0			
Molded	6	+10% - 0.0	+3.0% - 0.0%	600x600 1000x1000 1200x1200 1220x1220	1550x1500 2000x2000
	4	+0.75% - 0.0			
	4.5	+0.75% - 0.0			
	5	+15% - 0.0			
	6	+15% - 0.0			
	8	+15% - 0.0			
	10	+15% - 0.0			
	12	+15% - 0.0			
	15	+15% - 0.0			
	20	+15% - 0.0			
	25	+15% - 0.0			
	30	+15% - 0.0			
	35	+15% - 0.0			
	40	+15% - 0.0			
	45	+15% - 0.0			
	50	+15% - 0.0			
	60	+15% - 0.0			
	70	+15% - 0.0			
	80	+15% - 0.0			
	90	+15% - 0.0			
	100	+15% - 0.0			
110	+15% - 0.0				
120	+15% - 0.0				
130	+15% - 0.0				
140	+15% - 0.0				
150	+15% - 0.0				
				600x600 1220x1220	not available
				600x600	

(1) According to corporate standard specifications

Virgin PTFE sheets

Imperial sizes

	Thickness (inch)	Thickness Tolerance ⁽¹⁾ (inch)	Width / Length Tolerance ⁽¹⁾	Standard Sizes (inch)	Additional Sizes (inch)
Skived	.031"	+ .0015" - .0015"	+3.0% - 0.0%	24" x 24" 36" x 36" 48" x 48" 60" x 60"	on request
	.062"	+ .005" - .005"			
	.093"	+ .005" - .005"			
	.125"	+ .005" - .005"			
	.187"	+ .010" - .010"			
	.250"	+ .010" - .010"			
Molded	.187"	+ .022" - 0.11"	+3.0% - 0.0%	24" x 24" 36" x 36" 48" x 48"	60" x 60"
	.250"	+ .030" - .015"			
	.375"	+ .038" - .019"			
	.500"	+ .046" - .022"			
	.625"	+ .054" - .027"			
	.750"	+ .070" - .035"			
	.875"	+ .080" - .040"			
	1.000"	+ .087" - .043"			
	1.250"	+ .102" - .051"			
	1.500"	+ .118" - .059"			
	1.625"	+ .125" - .062"			
	1.750"	+ .134" - .067"			
	1.875"	+ .142" - .070"			
	2.000"	+ .150" - .075"			
	2.250"	+10.0% - 10.0%			
	2.750"	+10.0% - 10.0%			
	3.000"	+10.0% - 10.0%			
	3.250"	+10.0% - 10.0%			
	3.500"	+10.0% - 10.0%			
	3.750"	+10.0% - 10.0%			
4.000"	+10.0% - 10.0%				
6.000"	+10.0% - 10.0%				
				24" x 24" 48" x 48"	not available
				24" x 24"	

Additionally 1 or 2 sides etched, grinded
Standard materials Virgin PTFE, standard compounds
On request Custom sizes and special compounds

(1) According to ASTM D3308 standard and to corporate standard specifications

Virgin PTFE skived films and tapes

Metric sizes

Thickness (mm)	Tolerance ⁽¹⁾ (mm)	Materials	Width (mm)
0.025	+0.01 - 0	Virgin PTFE Modified PTFE	600
0.05			1200
0.10	Thickness +10% - 0.00 Width +3.0% - 0.0% Length +2.0% - 0.0%	Virgin PTFE Modified PTFE Standard compounds	600 1000 1200 1500
0.15			
0.20			
0.25			
0.30			
0.35			
0.40			
0.50			
0.60			
0.80			
1			
1.5			
2			
2.5			
3			
4			
5			
6			

Additionally Materials available on request: modified PTFE, special compounds
1 or 2 sides etched

(1) According to ISO 13000 standard and to corporate standard specifications

High quality PTFE skived films

	Thickness (mm)	Tolerance ⁽²⁾	Standard Width ⁽¹⁾ (mm)
Skived films	from 0.025 to 0.5	Thickness: +10% - 0% Width/Length: +3.0% - 0.0%	600 1200 1500

Additionally Etching treatment
Application PCB, wire and cables, LCD, release films
Materials fluteck™ P1500, fluteck™ P1550, fluteck™ P 9800CS, fluteck™ P 9850CS

(1) Additional sizes available on request

(2) According to ISO 13000 standard and to corporate standard specification

Virgin PTFE skived films and tapes

Imperial sizes

Thickness (inch)	Thickness tolerance ⁽¹⁾ (inch)	Materials	Standard sizes (inch)	Tolerance ⁽¹⁾
.001"	+ .0003" - 0"	Virgin PTFE Modified PTFE	24" 36" 48"	Width +3% - 0% Length +3% - 0%
.002"				
.003"				
.004"	+ 10% - 0%	Virgin PTFE Modified PTFE Standard compounds	24" 36" 48" 60"	
.005"				
.008"				
.010"				
.015"				
.020"				
.031"				
.062"				
.093"				
.125"				
.187"				
.250"				

Additionally Materials available on request: modified PTFE, special compounds
1 or 2 sides etched

(1) According to ASTM D3308 standard and to corporate standard specification

High quality PTFE skived films

Imperial sizes

	Thickness (inch)	Tolerance ⁽²⁾	Standard Width ⁽¹⁾ (inch)
Skived films	from .001" to .02"	Thickness: +5% - 5% Width/Length: +3.0% - .0%	24" 36" 48" 60"

Additionally Etching treatment
Application PCB, wire and cables, LCD, release films
Materials fluteck™ P1500, fluteck™ P1550, fluteck™ P 9800CS, fluteck™ P 9850CS

(1) Additional sizes available on request

(2) According to ASTM D3308 standard and to corporate specification

PTFE sheets and tapes for tank-lining and chemical applications

Metric sizes

	Thickness (mm)	Tolerance ⁽²⁾	Standard Width ⁽¹⁾ (mm)
Skived sheets	from 1.00 to 5.00	Thickness: +10% - 0.0% Width/Length: +3.0% - 0.0%	600x600 1200x1200 1500x1500
Skived tapes	from 1.00 to 5.00	Thickness: +10% - 0.0% Width/Length: +3.0% - 0.0%	Width 600 900 1200 1500

Imperial sizes

	Thickness (inch)	Tolerance ⁽³⁾	Standard Width ⁽¹⁾ (inch)
Skived sheets	from .031" to .187"	Thickness: +10% - 0.0% Width/Length: +3.0% - 0.0%	24"x24" 36"x36" 48"x48" 60"x60"
Skived tapes	from .031" to .187"	Thickness: +10% - 0.0% Width/Length: +3.0% - 0.0%	Width 24" 36" 48" 60"

Additionally

Etching treatment, roll length on request

Application

Seals, flanges for tank lining; gaskets, piping components

Materials

fluteck™ P1500, fluteck™ P1550, fluteck™ P8001 CF

(1) Additional sizes available on request

(2) Metric sizes: according to ISO 13000 standard and to corporate standard specification. On request ±5%

(3) Imperial sizes: according to ASTM D3308 standard and internal to corporate specification

Expanded PTFE sheets

Metric sizes

Thickness (mm)	Tolerance ⁽¹⁾	Standard Sizes ⁽¹⁾ (mm)
0.5 1.0 1.5 2.0 3.0 4.0 5.0 6.0	Thickness: +10% - 0.0% Width/Length: +3.0% - 0.0%	1500x1500

Imperial sizes

Thickness (inch)	Tolerance ⁽²⁾	Standard Sizes (inch)
.031" .062" .093" .125" .187" .250"	Thickness: +10% - 0.0% Width/Length: +3.0% - 0.0%	60"x60"

Additionally Other formats available on request
Materials fluteck™ P EX100
Notes Bi-axial orientation

(1) According to ISO 13000 standard and to corporate standard specification
 (2) According to ASTM D3294 standard and to corporate standard specification

PTFE guide and wear strips

Metric sizes

	Thickness (mm)	Tolerance ⁽²⁾	Standard Width (mm)
Guide strips	from 1.00 to 4.76	Thickness: +10% - 0% Width/Length: +3.0% - 0.0%	from 3.0 to 40.0

Imperial sizes

	Thickness (inch)	Tolerance ⁽²⁾	Standard Width (inch)
Guide strips	from 1/32 " to 3/16"	Thickness: +10% - 0% Width/Length: +3.0% - 0.0%	from 1/8 " to 1 1/2"

Additionally Chamfering 2 or 4 edges, knurking 1 or 2 sides, etching treatment
 Rolls, strips
Materials fluteck™ P1500, fluteck™ P1550, fluteck™ P GL series, fluteck™ P BZ/BM series, fluteck™ P CG series

(1) According to ISO 13000 standard and to corporate standard specification

PTFE dimpled sheets & disks

Metric sizes

	Thickness ⁽²⁾ (mm)	Tolerance ⁽¹⁾ (mm)	Standard Sizes ⁽³⁾ (mm)
Dimpled sheets	4.5 5.0 6.0	Thickness: +0.3 - 0.0 Width/Length: +50 - 0.0	600x600 800x800 1000x1000 1200x1200
Dimpled disks	4.5 5.0 6.0	Thickness: +0.3 - 0.0 Width/Length: +50 - 0.0	∅ 135 ∅ 208 ∅ 270 ∅ 310 ∅ 355 ∅ 410 ∅ 470 ∅ 495 ∅ 510 ∅ 550 ∅ 570 ∅ 620 ∅ 660 ∅ 760 ∅ 770 ∅ 780 ∅ 800 ∅ 880 ∅ 980 ∅ 1.040

Imperial sizes

	Thickness ⁽²⁾ (inch)	Tolerance ⁽¹⁾ (inch)	Standard Sizes ⁽³⁾ (inch)
Dimpled sheets	.187" .250"	Thickness: +.010" - .00" Width/Length: +2.00" - .00"	24"x24" 36"x36" 48"x48"
Dimpled disks	.187" .250"	Thickness: +.010" - .00" Width/Length: +2.00" - .00"	∅ 5.250" ∅ 8.125" ∅ 10.625" ∅ 12.125" ∅ 13.875" ∅ 16.125" ∅ 18.500" ∅ 19.500" ∅ 20.000" ∅ 21.625" ∅ 22.375" ∅ 24.375" ∅ 26.000" ∅ 28.875" ∅ 30.250" ∅ 30.625" ∅ 31.500" ∅ 34.625" ∅ 38.500" ∅ 41.875"

Material fluteck™ P2010
On request modified PTFE, special compounds

(1) According to EN 1337-2 and according to AASHTO LRFD 18.4.3.1-1 and 18.8.2.6-1

(2) Additional thicknesses available on request

(3) Additional sizes and semi-disks available on request

PTFE isostatic molded tubes

Metric sizes

O.D. (mm)		I.D. (mm)					Tolerance ⁽¹⁾	Length (mm)
40.0	33.0	30.0	-	-	-	-	O.D. +6.0% - 0.0%	
45.0	38.0	35.0	33.0	-	-	-		
48.0	40.0	38.0	35.0	33.0	-	-		
50.0	43.0	40.0	38.0	35.0	33.0	-		
53.0	45.0	43.0	40.0	38.0	35.0	-		
55.0	48.0	45.0	43.0	40.0	38.0	35.0		
58.0	50.0	48.0	45.0	43.0	40.0	38.0		
60.0	53.0	50.0	48.0	45.0	43.0	40.0		
63.0	55.0	53.0	50.0	48.0	45.0	43.0		
65.0	58.0	55.0	53.0	50.0	48.0	45.0		
68.0	60.0	58.0	55.0	53.0	50.0	48.0		
70.0	63.0	60.0	58.0	55.0	53.0	50.0		
73.0	65.0	63.0	60.0	58.0	55.0	53.0		
75.0	68.0	65.0	63.0	60.0	58.0	55.0		
78.0	70.0	68.0	65.0	63.0	60.0	58.0		
80.0	73.0	70.0	68.0	65.0	63.0	60.0		
83.0	75.0	73.0	70.0	68.0	65.0	63.0		
85.0	78.0	75.0	73.0	70.0	68.0	65.0		
88.0	80.0	78.0	75.0	73.0	70.0	68.0		
90.0	83.0	80.0	78.0	75.0	73.0	70.0		
93.0	85.0	83.0	80.0	78.0	75.0	73.0		
95.0	88.0	85.0	83.0	80.0	78.0	75.0		
98.0	90.0	88.0	85.0	83.0	80.0	78.0		
100.0	93.0	90.0	88.0	85.0	83.0	80.0		
103.0	95.0	93.0	90.0	88.0	85.0	83.0		
105.0	98.0	95.0	93.0	90.0	88.0	85.0		
108.0	100.0	98.0	95.0	93.0	-	-		
110.0	100.0	98.0	95.0	-	-	-		
115.0	105.0	100.0	95.0	-	-	-		
120.0	110.0	105.0	100.0	-	-	-		
125.0	115.0	110.0	105.0	-	-	-		

(1) According to ISO 13000 standard and to corporate standard specification

Thin wall PTFE tubes

Metric sizes

I.D. (mm)	Wall thickness (mm)	Standard length (m)
2.0	1	50 100
3.0	0.5	
4.0	1	
6.0	1	
8.0	1	
10.0	1	
12.0	1	
14.0	1	25

Additionally

More sizes available on request up to 80 mm

Sodium ammonia etching available on request

Materials

fluteck™ TW100, fluteck™ TW150, fluteck™ TW200, fluteck™ TW250

(1) According to ISO 13000 standard and to corporate standard specification

Technical data sheet

	Properties	Method	Units	fluteck™ P1000 Virgin PTFE Standard Grade	fluteck™ P1050 Modified PTFE Standard Grade	fluteck™ P1500 Virgin PTFE Premium Grade	fluteck™ P1550 Modified PTFE Premium Grade
Physical	Specific Gravity	ASTM D792	g/cm ³	2.13 - 2.19	2.13 - 2.18	2.13 - 2.19	2.13 - 2.18
	Water absorption - 24 hours	ASTM D570	%	0.01	0.01	0.01	0.01
Mechanical	Elongation at break	ASTM D4894	%	≥ 200	≥ 400	≥ 280	≥ 450
	Tensile strength	ASTM D4894	MPa	≥ 20	≥ 28	≥ 25	≥ 30
	Shore D hardness	ASTM D2240	Shore D	≥ 54	≥ 54	≥ 54	≥ 54
	Ball hardness	ASTM D785	MPa	≥ 23	≥ 23	≥ 23	≥ 23
	Compression strength at 1% deformation	ASTM D695	MPa	≥ 4	≥ 4	≥ 4	≥ 4
	Deformation under load (140 kg/cm ² for 24h at 23°C)	ASTM D621	%	10 - 13	9 - 12	10 - 13	9 - 12
	Permanent deformation (after 24h at 23°C)	ASTM D621	%	6 - 7.5	4.5 - 6	6 - 7.5	4.5 - 6
	Coefficient of static friction	ASTM D1894	-	0.08 - 0.10	0.08 - 0.10	0.08 - 0.10	0.08 - 0.10
	Coefficient of dynamic friction	ASTM D1894	-	0.06 - 0.08	0.06 - 0.08	0.06 - 0.08	0.06 - 0.08
	Wear factor K	ASTM D3702	-	2.9	2.9	2.9	2.9
Wear coefficient		$\frac{\text{cm}^3 \text{ min}}{\text{kg m h}} \cdot 10^{-8}$	20000 - 25000	20000 - 25000	20000 - 25000	20000 - 25000	
Thermal	Thermal conductivity	ASTM C177	W/m·K	0.34	0.24	0.34	0.24
	Flammability	UL94	-	V - 0	V - 0	V - 0	V - 0

The information in this technical data sheet have been collected from reliable statistic series.

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PTFE compounds

Filler	Product description	Properties	Color	Density (g/cm ³)	Elongation (%)	Hardness (Shore D)	Tensile strength
Glass fiber	fluteck™ P GL series	Improved wear resistance, compression strength, creep resistance, chemical resistance (except to alkalis and hydrofluoric acid). Good performance in oxidizing environments	white cream	2.130 - 2.290	≥ 180	≥ 63	≥ 18
Glass fiber combined with MoS ₂	fluteck™ P GM series	Superior hardness and wear resistance. Increased sliding properties	gray black	2.140 - 2.280	≥ 100	≥ 60	≥ 22
Glass fiber combined with graphite	fluteck™ P GG series						
Carbon	fluteck™ P CA series	Improved electrical and thermal conductivity, better resistance under load, low coefficient of friction, rapid dissipation of electrical charge, inertness and chemical resistance	black	2.030 - 2.190	≥ 100	≥ 62	≥ 30
Electro-graphitized carbon	fluteck™ P CS series						
Carbon graphite	fluteck™ P CG series	Improved electrical and thermal conductivity, better resistance under load, low coefficient of friction, improved wear resistance and low friction properties	black	2.070 - 2.190	≥ 100	≥ 62	≥ 20
Carbon fiber	fluteck™ P CF series	Improved lubricant properties in wet environments (dynamic applications). Resistance to hydrofluoric acids and strong bases (except oxidizing environments)	black	2.060 - 2.120	≥ 75	≥ 55	≥ 20
Graphite	fluteck™ P GR series	Improved wear resistance, decreased friction and increased sliding properties against soft metals, chemical inertness	black	2.120 - 2.180	≥ 60	≥ 60	≥ 20
Bronze	fluteck™ P BZ series	Improved compression strength, wear resistance, high thermal conductivity, resistance to abrasion, reduced chemical resistance	brown green	3.050 - 4.000	≥ 150	≥ 65	≥ 15
Bronze combined with MoS ₂	fluteck™ P BM series	Superior hardness and wear resistance. Increased sliding properties. Lower coefficient of friction than bronze filled	brown	3.050 - 3.900	≥ 150	≥ 65	≥ 18
Bronze combined with graphite	fluteck™ P BG series						
Molybdenum disulfide (MoS ₂)	fluteck™ P MS series	Increased properties of hardness and wear resistance. Increased sliding properties and decreased friction	blue	2.200 - 2.250	≥ 200	≥ 55	≥ 25
PEEK	fluteck™ P PK series	Increased thermal resistance, sliding properties, surface hardness. Superior properties in dynamic applications	light brown	1.800 - 1.930	≥ 10	≥ 65	≥ 13
Stainless steel	fluteck™ P IN series	Superior compression strength and wear resistance properties, high thermal conductivity, resistance to abrasion	gray	3.300 - 3.400	≥ 130	≥ 65	≥ 15
Aromatic polyester	fluteck™ P EK series	Improved low friction behavior and high wear resistance against all counterfaces	brick red brown	1.850 - 2.090	≥ 150	≥ 60	≥ 15
Calcium fluoride	fluteck™ P FC series	Improved wear resistance, compression strength, creep and chemical resistance. FDA approved	cream brown	2.230 - 2.290	≥ 130	≥ 62	≥ 15
Alumina	fluteck™ P AL series	Excellent chemical resistance, compression strength and chemical/thermal dimensional stability	cream	2.240 - 2.270	≥ 100	≥ 62	≥ 18
Ceramic	fluteck™ P CE series						

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Technical data sheets

	Properties	Method	Units	fluteck™	fluteck™	fluteck™	fluteck™	fluteck™	fluteck™	fluteck™
				P1500 PTFE	K300 PEEK	C100 PCTFE	C200 ECTFE	F100 PFA	E200 FEP	E400 ETFE
Physical	Specific Gravity	ASTM D792	g/cm ³	2.130 - 2.190	1.30 - 1.32	2.10 - 2.16	1.62 - 1.68	2.13 - 2.18	2.12 - 2.16	1.72
	Water absorption - 24 hours	ASTM D570	%	0.01	0.1	< 0.01	< 0.10	< 0.03	< 0.01	< 0.01
	Mold shrinkage - along the flow	ASTM D955	%	1.50 - 2.00	1 - 1.5	1.50 - 2.00	2.5	4 - 5	3 - 5	2 - 3.5
Mechanical	Elongation at break	ASTM D638	%	≥ 280	≥ 10	40 - 150	≥ 200	≥ 250	≥ 300	≥ 200
	Tensile strength (23°C)	ASTM D638	MPa	> 25	≥ 95	31 - 45	40	> 23	25	> 35
	Flexural strength, at break	ASTM D790	MPa	no break	≥ 140	40 - 50	40	no break	no break	38
	Flexural modulus	ASTM D790	MPa	600 - 700	3800	1200	1500	500	600	1000
	Shore D hardness	ASTM D785	-	D54	D80	D80	D75	D60	D56	D65
	IZOD notched impact (23°C)	ASTM D256	J/m	161	≥ 85	150	no break	no break	no break	no break
	Coefficient of dynamic friction (vs. itself)	ASTM D1894	-	0.06 - 0.08	≤ 0.2	0.35	0.2	0.21	0.3	0.23
Thermal	Melting temperature (°F/°C)	ASTM D3418	(°F/°C)	621/327	644/340	410/210	432/222	582/305	500/260	518/270
	Max operating temperature (°F/°C)	-	(°F/°C)	500/260	572/300	302/150	302/150	500/260	400/204	302/150
	Flammability rating	UL 94	-	V - 0	V - 0	V - 0	V - 0	V - 0	V - 0	V - 0
	Heat deflection tem- perature (0.45 MPa)	ASTM D648	(°F/°C)	132/55	315/157	176/80	194/90	163/73	158/70	176/80
	Min. short term service temperature	-	(°F/°C)	- 320/ - 196	- 148/ - 100	- 328/ - 200	- 148/ - 100	- 328/ - 200	- 328/ - 200	- 148/ - 100
Electrical	Dielectric constant, at 1KHz	ASTM D150	-	2.1	3.2	2.3	2.48	2	2.15	2.6
	Dielectric strength (23°C, 1.0 mm)	ASTM D149	KV/mm	≥ 30	≥ 22	32	30	33	35	30
	Dissipation factor, at 1KHz	ASTM D150	-	0.0001 - 0.0003	0.003	0.0012	0.0012	0.00082	0.00094	0.015
	Arc resistance (sec)	ASTM D495	sec	300	40	> 320	> 120	> 180	> 300	> 100
	Volume resistivity, at 50% RH	ASTM D257	(ohm*cm)	> 10 ¹⁸	> 10 ¹⁷	> 10 ¹⁷	> 10 ¹⁷	> 10 ¹⁸	> 10 ¹⁸	> 10 ¹⁷

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