

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 %	1000 2000 3000	
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 %	1000 2000	
120	+6.0 -0.0 %		
130	+6.0 -0.0 %		
140	+6.0 -0.0 %		
150	+6.0 -0.0 %	1000	
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 Precision ground rods available on request
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 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%	
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%		
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%		
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		2" 3" 4"	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		25		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	115	95	125	77.5	140	55
	20		55		40		65		80		60		
	25		60		45		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	145	85
	20		60		55		20		45		90		
	25		15		57.5		25		47.5		20		95
	27.5		20		60		27.5		50		25		100
	30		25		62.5		30		55		40		105
	32.5		27.5		65		35		60		45		110
	35		30		67.5		40		65		50		115
	40		35		70		45		67.5		55		120
60	15	82.5	40	95	72.5	105	50	120	70	130	60	145	125
	20		45		75		55		72.5		65		40
	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	85	55	95	50	107.5	90	120	30	132.5	110	150	90
	20		60		52.5		32.5		40		115		95
	25		65		55		47.5		45		120		100
	27.5		15		60		50		50		70		105
	30		20		65		52.5		55		80		110
	35		25		70		55		60		90		115
	40		27.5		75		57.5		65		100		120
	42.5		30		80		60		70		110		125
	45		32.5		27.5		65		75		120		130
	47.5		35		45		70		80		130		20
70	15	85	42.5	97.5	50	110	80	125	90	135	50	150	40
	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		20		75		65
	40		57.5		80		35		25		80		70
	45		60		82.5		40		27.5		85		75
	50		65		15		45		30		90		80
	55		70		20		50		35		95		85

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		120	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	205	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	140		110		
	85		50	140	120		175	140	145		115		
	90		60	145	125		180	145	150		120		
	95		70	150	130		185	150	155		125		
	100		80	155	135		190	155	160		130		
	105		90	160	140		195	160	165		135		
	110		95	165	145		200	165	170		140		
	115		100	60	150		90	170	175		145		
	120		105	65	155		95	175	180		150		
	125		110	70	160		100	180	185		155		
130	115	75	165	105	185	190	160						
135	120	80	170	110	190	195	165						
140	125	85	175	115	195	200	170						
160	40	175	130	185	90	200	180	210	135	225	205	240	190
	50		135		100		50		140		110		195
	55		140		105		60		145		120		200
	60		145		110		70		150		125		205
	65		150		115		80		155		130		210
	70		155		120		90		160		135		215
	75		55	125	90		165	140	220				
	80		60	130	95		170	145	145		100		
	85		65	135	100		175	150	150		105		
	90		70	140	105		180	155	155		110		
	95		75	145	110		185	160	160		115		
	100		80	150	115		190	165	165		120		
	105		85	155	120		195	170	170		125		
	110		90	160	125		200	175	175		130		
	115		95	165	130		205	180	180		135		
	120		100	170	135		210	185	185		140		
	125		105	175	140		215	190	190		145		
	130		110	40	145		90	195	195		150		
135	115	50	150	95	200	200	155						
140	120	60	155	100	205	205	160						
145	125	70	160	105	210	210	165						
150	130	80	165	110	215	215	170						
155	135	90	170	115	220	220	175						
165	35	175	140	190	90	200	165	215	145	230	90	240	195
	40		145		100		170		150		100		200
	50		150		105		175		155		110		205

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		210		222.5		295		310	
	180		265		110		215		215		225		200	315
	185				135		220		220		230		222.5	222.5
	190				140		222.5		222.5		235		230	235
	195	145		225	230	240	240	245						
	200	150		230	235	245	245	250						
	205	155		235	240	250	250	255						
	210	160		240	245	255	255	260						
	215	165		245	250	260	260	270						
	220	170	250	255	265	265	275							
	222.5	175	255	260	270	270	280							
	225	180	275	160	290	265	305	275	320	285	337.5	285		
230	185	165		270		280		290		290				
100	265	190		170		160		185		350		297.5	300	300
110		195		175		195		190		185		300	305	
120		200		180		200		190		205		180	310	
130		205		200		210		205		210		195	315	
140		210		205		215		210		215		205	245	
145		215		210		220		215		220		215	260	
150		220	215	222.5	220	225	220	270						
155		222.5	220	225	220	230	222.5	275						
160		225	222.5	230	225	235	230	290						
165		230	225	235	230	240	240	300						
170		235	230	240	235	245	245	305						
175		240	235	245	240	250	250	310						
180		245	240	250	245	255	255	320						
185		270	140	245	255	260	260	340	190					
190			145	250	260	265	270		210					
195			170	255	265	270	275		220					
200	175		260	270	275	280	240							
205	180		155	275	280	285	245							
210	185		160	100	285	290	250							
215	200		165	170	287.5	300	255							
220	205		170	175	290	305	260							
222.5	280	210	180	295	185	310	185	245						
225		215	185		190		360	260	270					
230		220	195		200		195	270	275					
235		222.5	200		222.5		200	275	280					
150		270	225		210		300	250	325	205	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	275	225	297.5		305						
185	250		235	280	235	300		310						
190	270		130	240	300	150		330		240	305			
195			150	245		170				245	310	320		
200		155	250	175		250	245		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	390	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	350	355	445	455						
	315	350	350	375	365	455	460						
	320	245	355	415	380	340	465						
	325	255	360	360	385	355	470						
330	260	365	365	390	360	475							
350	200	275	372.5	395	400	405	395	410	415	420	425	430	435
	210	280	255	400	405	410	395	415	420	425	430	435	440
	230	290	290	330	410	415	410	420	425	430	435	440	445
	235	295	300	340	415	420	410	425	430	435	440	445	450
	245	300	310	355	420	425	410	430	435	440	445	450	455
	250	310	325	422.5	365	425	410	430	435	440	445	450	455
	255	320	330	330	375	427.5	410	430	435	440	445	450	455
	260	325	335	390	390	430	410	430	435	440	445	450	455
	265	330	340	340	400	430	410	430	435	440	445	450	455
	270	335	350	405	405	430	410	430	435	440	445	450	455
	275	340	355	310	405	430	410	430	435	440	445	450	455
	280	345	360	325	410	430	410	430	435	440	445	450	455
	290	347.5	365	340	410	430	410	430	435	440	445	450	455
	295	352.5	370	355	410	430	410	430	435	440	445	450	455
	300	355	375	365	410	430	410	430	435	440	445	450	455
	305	230	380	425	375	395	410	430	435	440	445	450	455
	310	250	295	390	390	400	410	430	435	440	445	450	455
	315	255	300	397.5	397.5	410	415	430	435	440	445	450	455
	320	260	315	400	400	415	420	430	435	440	445	450	455
	325	265	320	405	405	420	425	430	435	440	445	450	455
330	275	325	410	410	425	430	430	435	440	445	450	455	
335	280	330	340	410	430	430	430	435	440	445	450	455	
360	220	290	405	335	355	375	445	465	485	505	525	545	565
	260	295	340	365	385	405	475	495	515	535	555	575	595
	275	300	345	375	395	415	485	505	525	545	565	585	605
	280	305	355	437.5	390	410	430	450	470	490	510	530	550
	290	310	360	400	400	420	440	460	480	500	520	540	560
	295	315	365	405	405	425	445	465	485	505	525	545	565
	300	320	370	410	410	430	450	470	490	510	530	550	570
	305	325	375	415	415	435	455	475	495	515	535	555	575
	310	330	390	420	420	440	460	480	500	520	540	560	580
	315	335	395	425	425	445	465	485	505	525	545	565	585
	320	340	410	430	430	450	470	490	510	530	550	570	590
	325	345	300	440	345	365	385	465	485	505	525	545	565

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		570		550		730		795							
	470		470		575		580		580		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	730					
540	390	580	495	620	560	670	550	715	715	770	730	880	795							
	410		515		570		580		655		740		810							
	420		520		580		585		680		742.5		815							
	425		540		585		600		585		745		825							
	435		550		590		605		605		750		830							
	455		560		595		620		620		650		835							
	470		565		605		630		680		670		860							
	485																			
	495		485		570		570		635		690		690	765						
	505		495		585		640		640		605		700	795						
	510		505		595		650		635		710		815							
	515		515		605		550		655		715		830							
	520		520		637.5		585		670		730		850							
545	435	590	530	627.5	550	680	600	720	720	790	735	900	880							
	455		540		560		605		690		740		830							
	470		550		570		615		695		750		840							
	485		560		580		620		700		760		845							
	495		565		585		630		605		765		850							
	505		570		590		635		635		770		860							
	510		454		595		640		655		785		875							
	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							
	55		435		600		515		640		580		682.5	620	740	740	815	770	910	850
			455				520				585			635		680		775		860
470		540	590	655		685	780	870												
485		550	595	690		690	785	835												
495		560	600	580		700	795	830												
515		565	605	600		710	800	850												
520		570	610	615		715	730	880												
560	455	610	585	650	615	695	620	750	742.5	840	815	925	890							
	470		460		620		630		725		820		830							
	495		470		585		650		655		720		850							
	500		480		590		655		680		735		875							
	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		620		690		800		880							
	545		540		625		625		655		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		1020	1200	1020		1290		1400	1810	1710
	915		940	1035	1060		1330	1290	1420	1760			
	920		945	1035	1145			1295	1470	1710			
	930		950	1060	1150		1340	1145	1570	1420	1850	1710	
950	880	955	1120	830	1165	1290		1470		1800			
	890	970		880	1180	1310		1520		1760			
	900	910		900	1215	1060	1320	1470	1910	1800			
	910	985		955		1145		1200		1520	1850		
	925	920		1020		1165	1235	1570	1800				
965	880	1050	925	1040		1200	1390	1300	1670	1520	1950	1850	
	885		940	1055	1240	1185		1310		1570		1900	
	900		945	1060		1215		1330		1610	1850		
	925		970	1075	1095	1355		1710	1570	2010	1900		
	940		985	1080	1255	1165	1370		1610		1950		
	945		990	1095		1215	1390		1660				
	950		1000	1095	1440	1235	1760	1610					
1000	860	1005	1120	1295		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"			
	.187"	+ .022" - 0.11"			
Molded	.250"	+ .030" - .015"	+3.0% - 0.0%	24" x 24" 36" x 36" 48" x 48"	60" x 60"
	.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 Standard materials 1 or 2 sides etched, grinded
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	ø 135 ø 208 ø 270 ø 310 ø 355 ø 410 ø 470 ø 495 ø 510 ø 550 ø 570 ø 620 ø 660 ø 760 ø 770 ø 780 ø 800 ø 880 ø 980 ø 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"	ø 5.250" ø 8.125" ø 10.625" ø 12.125" ø 13.875" ø 16.125" ø 18.500" ø 19.500" ø 20.000" ø 21.625" ø 22.375" ø 24.375" ø 26.000" ø 28.875" ø 30.250" ø 30.625" ø 31.500" ø 34.625" ø 38.500" ø 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	-	-	-	-	600	
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

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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 temperature (0.46 MPa)	ASTM D648	(°F/°C)	158-248/ 70-120	-	248-257/ 120-125	194-212/ 90-100	158-167/ 70-75	158/70	212-221/ 100-105
	Heat deflection temperature (1.8 MPa)	ASTM D648	(°F/°C)	113-132/ 45-55	302-320/ 150-160	-	145-163/ 63-73	113-132/ 45-55	118-140/ 48-60	158-194/ 70-90
	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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