

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	1000 2000 3000	+2.0% - 0.0%
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 %	1000 2000	
120	+6.0 -0.0 %	1000	
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	+2.0% - .0%
* .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	
2.250"	+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% I.D. +6.0% - 0.0% Length +2.0% - 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	-	-	-	-	-	1000	
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	-	-	-	-	-	-	-	-		

(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"	6 ft
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%		260	+6.0% - 0.0%	
50	+6.0% - 0.0%	100 150 200 250 300	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%	50 100 150 200
125	+6.0% - 0.0%	100 150 200 250 300	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%	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		15.500"	+4% - 0	
4.250"	+4% - 0		16.000"	+4% - 0	
4.500"	+4% - 0		16.500"	+4% - 0	
4.625"	+4% - 0		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	2" 3" 4"
7.250"	+4% - 0		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

Virgin PTFE, standard compounds

On request

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	40	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	105	60	115	95	130	77.5	145	55
	20		55		40		65		20		80		60
	25		60		42.5		70		25		85		65
	27.5		40		45		75		27.5		90		70
	30		45		47.5		80		30		95		75
	35		50		50		85		35		100		80
55	15	80	55	95	52.5	107.5	15	120	40	135	105	150	85
	20		60		55		20		45		110		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	110	50	125	70	135	60	150	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	97.5	50	110	90	125	30	135	110	150	90
	20		60		52.5		32.5		40		115		95
	25		65		55		47.5		45		60		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		25		130
	47.5		35		45		70		80		30		20
	50		40		45		75		85		40		25
	15	87.5	42.5	97.5	50	110	80	125	90	135	50	150	40
70	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	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		115	180	95		160	205	130		70		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	195	65		150	220	110		200
	65		140		120		80		155		115		205
	70		145		125		100		160		125		210
	75		150		130		105		165		130		215
	80	170	40		135		115		170		135	235	110
	85		50		140		120		175		140		115
	90		60		145		125		180		145		120
	95		70		150		130		185		150		125
	100		80		155		135		190		155		130
	105		90		160		140	210	195		160		135
	110		95		165		145		200		165		140
	115		100	185	60		150		205		170		145
	120		105		65		155		210		175		150
	125		110		70		160		215		180		155
	130		115		75		165		220		185		160
	135		120		80		170		225		190		165
	140		125		85		175		230		195		170
160	40		130		90		180	210	135		200		175
	50		135		100		50		140		205		180
	55		140		105		60		145		210		185
	60		145		110		70		150		215		190
	65		150		115		75		155		220		195
	70		155		120		80		160		225		200
	75	175	55		125		90	200	165		230		205
	80		60		130		95		170		235		210
	85		65		135		100		175		240		215
	90		70		140		105		180		245		220
	95		75		145		110		185		250		225
	100		80		150		115		190		255		230
	105		85		155		120	215	195		260		235
	110		90		160		125		200		265		240
	115		95		165		130		205		270		245
	120		100		170		135		210		275		250
	125		105	190	40		140		215		280		255
	130		110		45		145		220		285		260
	135		115		50		150		225		290		265
	140		120		55		155		230		295		270
	145		125		60		160		235		300		275
	150		130		65		165		240		305		280
	155		135		70		170		245		310		285
	160		140		75		175		250		315		290
165	35		140		90		165		145	230	90		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		205		160	280	255		185		255		260
	220		210		170		260		190		260		275
	222.5		215		175		265		195		265		280
	225		220		185		145		200		270		285
245	150	255	222.5		190		160		205	310	275	330	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		195		310
	180		110	270	215	285	215	300	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	315	255	332.5	260
	215		165		245		250		260		260		270
	220		170		250		255		265		270		275
	222.5		175		255		260		270		275		280
	225		180		160		265		275		285		285
	230		185		165		270		280		290		290
250	100	260	190		170		160		350		297.5		300
	110		195		175		195		185		300		305
	120		200		180		200		190		180		310
	130		205		200		210		205		195		315
	140		210	275	205	290	215	305	210		205		245
	145		215		210		220		215		215		260
	150		220		215		222.5		220		225		270
	155		222.5		220		225		222.5		230		275
	160		225		222.5		230		230		235	337.5	290
	165		230		225		235		240		240		300
	170		235		230		240		245		245		305
	175		240		235		245		250	320	250		310
	180		245		240		250		255		255		320
	185		140		245		255		260		260		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	295	100		285		290		250
	215		200		165		170		287.5		300		255
	220		205		170		175		290		305		260
255	222.5	265	210	280	180	295	185		185		245	340	265
	225		215		185		190		360		260		270
	230		220		195		200		195		270		275
	235		222.5		200		222.5		200		275		280
	150		225		210		250		205	325	280		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		240		305		315
	195		150		245		170		245		310		320
	200		155		250		175		250	330	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		320		355		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	365	250	390	275	410	355	440	395	465	445		465
	255		255		280		360		400		450		470
	260		275		290		365		405		355		472.5
	265		290		295		370		410	475	365	500	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	450	300		400		435
	295		330		330	415	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	370	245		355	415	380		380	480	340		465
	325		255		360		385		390		355		470
	330		260		365		390		395		360		475
350	200		275		372.5		395		400		365		477.5
	210		280	395	255	422.5	400		405		390	512.5	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		365		425		425		435
	255		320		330		375		427.5		430		455
	260		325		335		390		430		435		470
	265		330		340	425	400	460	320		440		485
	270		335		350		405		340		445		495
	275		340		355		310		355		450	515	390
	280		345		360		325		365		455		410
	290		347.5		365		340		375		460		435
	295		352.5		370		355		385		465		445
	300		355		375		365		390	485	355		455
	305	380	230		380		375		395		360		460
	310		250		295		390		400		365		465
	315		255		300		397.5		410		385		470
	320		260		315		400		415		390		475
	325		265		320		405		420		405		480
	330		275		325		410		425		410		485
	335		280		330	437.5	340		430		420		495
360	220		290	405	335		355	465	435	490	430	527.5	435
	260		295		340		365		440		455		455
	275		300		345		375		445		460		470
	280		305		355		390		340		465		485
	290		310		360		400		355		470		495
	295		315	410	365	440	405		365		360		500
	300		320		370		410		385		385		505
	305		325		375		420		390		400		515.5
	310		330		390		300		395		410	530	390
	315		335		270		320		400		415		410
	320		340		295		340		410		420		415
	325		345		300		345		415		425		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	695	677.5	750	715	852.5	765
	460		460		570		570	700	550		730		795
	470		470		575		580		580	760	620		815
	475		475		580		585		600		655	860	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	620	490		605		650		735		795
	500		530		505		615		665	770	740		815
	505		535		515		620		670		655	867.5	795
	510		540		520		630		675		690		815
	515		545		540		635		680		710		830
540	390		550		550	670	540	715	707.5		715	880	730
	410	580	495		560		550		635	770	730		795
	420		515		570		580		655		740		810
	425		520		580		585		680		742.5		815
	435		540		585		600		680		745		825
	455		550		590		605		605		750		830
	470		560		595		620		620	790	650		835
	485		565		605		630		680		670		860
	495	590	485	627.5	570		635	720	690		690	895	765
	505		495		585		640		605		700		795
	510		505		595		650		635		710		815
	515		515		605	680	550		655		715		830
	520		520		637.5		585		670		730		850
	435		530		550		600		680		735	900	880
	455		540		560		605		690		740		830
	470		550		570		615		695		750		840
545	485	590	560		580		620		700	730	760		845
	495		565		585		630	740	605		765		850
	505		570		590		635		635		770		860
	510		454		595		640		655		785		875
	515	600	470		600	682.5	650		680	815	700	910	880
	520		475		605		660		690		710		795
	522.5		485		530		585		710		760		815
	525		505		560		605		635		765		830
	435		515		580		620		655		770		850
	455	600	520		585		635		680		775		860
	470		540		590		655		685		780		870
	485		550		595		690		690		785		835
55	495		560		600		580		700	835	795	915	830
	515		565		605		600		710		800		850
	520		570		610		615		715		730		880
	455	610	585		615		620	742.5	720		815		890
	470		460		620		630		725	840	820	925	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	650	605		585		620		785		900
	535		515		610		605		655		790	930	830
	540		520		615	695	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	1810	1660
	900		930		1020	1200	1020	1330	1290	1520	1400		1710
	915		940	1095	1035		1060		1290		1420	1850	1760
	920		945		1035		1145	1340	1295	1570	1470		1710
	930		950		1060		1150		1145		1420		1710
950	880	1025	955	1120	830	1215	1165	1340	1290	1620	1470	1910	1800
	890		970		880		1180		1310		1520		1760
	900		910		900	1240	1060		1320	1670	1470	2010	1800
	910		985		955		1145	1390	1200		1520		1850
	925	1050	920		1020	1255	1165		1235		1570	1760	1800
965	880		925		1040		1200		1300	1710	1520		1850
	885		940		1055	1295	1185		1310		1570		1900
	900		945		1060		1215	1440	1330	1760	1610		1850
	925		970		1075	1295	1095		1355		1570		1900
	940		985		1080		1165		1370		1610		1950
	945		990		1095	1295	1215		1390		1660		
	950		1000	1150	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			
	6	+10% - 0.0			
Molded	4	+0.75% - 0.0	+3.0% - 0.0%	600x600 1000x1000 1200x1200 1220x1220	1550x1500 2000x2000
	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"			
	.250"	+ .030" - .015"			
	.375"	+ .038" - .019"			
Molded	.500"	+ .046" - .022"	+3.0% - 0.0%	24" x 24" 36" x 36" 48" x 48"	60" x 60"
	.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%		24" x 24" 48" x 48"	not available
	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"	

Additionally
Standard materials
On request

1 or 2 sides etched, grinded
Virgin PTFE, standard compounds
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
Application
Materials

Etching treatment, roll length on request
Seals, flanges for tank lining; gaskets, piping components
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
Materials
Notes

Other formats available on request
fluteck™ P EX100
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, knurkling 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	-	-	-	-	O.D. +6.0% - 0.0% I.D. - 6.0% +0.0% Length +2.0% - 0.0%	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
Thermal	Wear coefficient		$\frac{\text{cm}^3 \text{ min}}{\text{kg m h}} \cdot 10^{-8}$	20000 - 25000	20000 - 25000	20000 - 25000	20000 - 25000
	Thermal conductivity	ASTM C177	W/m·K	0.34	0.24	0.34	0.24
Thermal	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™ P1500 PTFE	fluteck™ K300 PEEK	fluteck™ C100 PCTFE	fluteck™ C200 ECTFE	fluteck™ F100 PFA	fluteck™ E200 FEP	fluteck™ E400 ETFE
Physical	Specific Gravity	ASTM D792	g/cm³	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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