



Fluoropolymer Products Specifications / Information

Extruded Tubing

- AWG Standard / Thin / Light
- Industrial Wall .030
- Heavy Construction .063
- AWG Heavy Wall
- Fractional
- Metric
- Beading / Monofilament

Heat Shrink Tubing

- Heat Shrink PTFE Tubing
- Dual Wall PTFE / FEP
- Heat Shrink FEP Tubing
- Heat Shrink FEP Roll Covers

Flexible Tubing

- Convoluted PTFE Tubing
- Convoluted FEP Tubing
- Convoluted ETFE Tubing
- Convoluted PTFE w/ Cuffs
- Corrugated Tubing
- Spiral Wrap

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Extruded Tubing

PTFE FEP PFA



AWG American Wire Gauge

AWG Size	Min ID	Nominal ID	Max ID	Standard Wall	Thin Wall	Light Wall
32	.008	.010	.012	.005 +/- .002	.005 +/- .002	~
30	.010	.012	.015	.009 +/- .002	.009 +/- .002	.006 +/- .002
28	.013	.015	.018	.009 +/- .002	.009 +/- .002	.006 +/- .002
26	.016	.018	.021	.009 +/- .002	.009 +/- .002	.006 +/- .002
24	.020	.022	.026	.012 +/- .002	.010 +/- .003	.006 +/- .002
23	.023	.026	.029	.012 +/- .002	.010 +/- .003	.006 +/- .002
22	.025	.028	.032	.012 +/- .002	.010 +/- .003	.006 +/- .002
21	.029	.032	.035	.012 +/- .002	.010 +/- .003	.006 +/- .002
20	.032	.034	.038	.016 +/- .003	.012 +/- .003	.006 +/- .002
19	.036	.038	.042	.016 +/- .003	.012 +/- .003	.006 +/- .002
18	.040	.042	.046	.016 +/- .003	.012 +/- .003	.006 +/- .002
17	.045	.047	.052	.016 +/- .003	.012 +/- .003	.006 +/- .002
16	.051	.053	.058	.016 +/- .003	.012 +/- .003	.006 +/- .002
15	.057	.059	.065	.016 +/- .003	.012 +/- .003	.006 +/- .002
14	.064	.066	.072	.016 +/- .003	.012 +/- .003	.008 +/- .002
13	.072	.076	.081	.016 +/- .003	.012 +/- .003	.008 +/- .002
12	.081	.085	.091	.016 +/- .003	.012 +/- .003	.008 +/- .002
11	.091	.095	.101	.016 +/- .003	.012 +/- .003	.008 +/- .002
10	.102	.106	.112	.016 +/- .003	.015 +/- .003	.008 +/- .002
9	.114	.118	.124	.020 +/- .004	.015 +/- .003	.008 +/- .002
8	.129	.133	.139	.020 +/- .004	.015 +/- .003	.008 +/- .002
7	.144	.148	.155	.020 +/- .004	.015 +/- .003	.008 +/- .002
6	.162	.166	.174	.020 +/- .004	.015 +/- .003	.010 +/- .003
5	.182	.186	.195	.020 +/- .004	.015 +/- .003	.010 +/- .003
4	.204	.208	.218	.020 +/- .004	.015 +/- .003	.010 +/- .003
3	.229	.234	.244	.020 +/- .004	.015 +/- .003	.010 +/- .003
2	.258	.263	.273	.020 +/- .004	.015 +/- .003	.010 +/- .003
1	.289	.294	.305	.020 +/- .004	.015 +/- .003	.010 +/- .003
0	.325	.330	.342	.020 +/- .004	.015 +/- .003	.012 +/- .003



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Extruded Tubing

PTFE FEP PFA



Industrial Wall Tubing

Size	I. D.	O. D.	Nominal Wall	Fraction
1/32	.031 +/- .004	.063 +/- .005	.015	1/32 x 1/16
1/16	.063 +/- .005	.125 +/- .005	.030	1/16 x 1/8
3/32	.094 +/- .005	.156 +/- .005	.030	3/32 x 5/32
1/8	.125 +/- .005	.188 +/- .005	.030	1/8 x 3/16
3/16	.188 +/- .005	.250 +/- .005	.030	3/16 x 1/4
1/4	.250 +/- .005	.313 +/- .005	.030	1/4 x 5/16
5/16	.313 +/- .005	.375 +/- .005	.030	5/16 x 3/8
3/8	.375 +/- .005	.438 +/- .005	.030	3/8 x 7/16
7/16	.438 +/- .005	.500 +/- .006	.030	7/16 x 1/2
1/2	.500 +/- .006	.563 +/- .006	.030	1/2 x 9/16
9/16	.563 +/- .006	.625 +/- .006	.030	9/16 x 5/8
5/8	.625 +/- .006	.688 +/- .006	.030	5/8 x 11/16
11/16	.688 +/- .006	.750 +/- .006	.032	11/16 x 3/4
3/4	.750 +/- .006	.830 +/- .006	.040	~
7/8	.875 +/- .006	.965 +/- .006	.045	~
1	1.000 +/- .010	1.100 +/- .010	.050	~
1 1/8	1.125 +/- .015	1.215 +/- .015	.045	~
1 1/4	1.250 +/- .015	1.340 +/- .015	.040	~
1 1/2	1.500 +/- .015	1.580 +/- .015	.040	~

Custom Industrial Wall Tubing

Size	I. D.	O. D.	Wall
1/4	.170	.250 +/- .004	.040 +/- .003
1/4	.156	.250 +/- .004	.047 +/- .003
3/8	.281	.375 +/- .005	.047 +/- .003



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Heavy Construction Tubing

Size	I. D.	O. D.	Nominal Wall	Fraction
1/4	.125 +/- .005	.250 +/- .005	.063	1/8 x 1/4
5/16	.188 +/- .005	.313 +/- .005	.063	3/16 x 5/16
3/8	.250 +/- .005	.375 +/- .005	.063	1/4 x 3/8
7/16	.313 +/- .005	.438 +/- .005	.063	5/16 x 7/16
1/2	.375 +/- .005	.500 +/- .006	.063	3/8 x 1/2
9/16	.438 +/- .006	.563 +/- .006	.063	7/16 x 9/16
5/8	.500 +/- .006	.625 +/- .006	.063	1/2 x 5/8
11/16	.563 +/- .006	.688 +/- .006	.063	9/16 x 11/16
3/4	.625 +/- .006	.750 +/- .006	.063	5/8 x 3/4
13/16	.688 +/- .006	.813 +/- .006	.063	11/16 x 13/16
7/8	.750 +/- .006	.875 +/- .006	.063	3/4 x 7/8
15/16	.813 +/- .006	.938 +/- .006	.063	13/16 x 15/16
1	.875 +/- .010	1.00 +/- .010	.063	7/8 x 1
1 1/8	1.000 +/- .010	1.125 +/- .010	.063	1 x 1 1/8
1 1/4	1.125 +/- .010	1.250 +/- .010	.063	1 1/8 x 1 1/4
1 3/8	1.250 +/- .010	1.375 +/- .010	.063	1 1/4 x 1 3/8
1 1/2	1.375 +/- .010	1.500 +/- .010	.063	1 3/8 x 1 1/2
1 5/8	1.500 +/- .012	1.625 +/- .012	.063	1 1/2 x 1 5/8
1 3/4	1.625 +/- .015	1.750 +/- .015	.063	1 5/8 x 1 3/4
2	1.875 +/- .015	2.000 +/- .015	.063	1 7/8 x 2
2 1/8	2.000 +/- .015	2.125 +/- .015	.063	2 x 2 1/8



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Extruded Tubing

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AWG Heavy Wall Tubing

AWG Size	Minimum ID	Nominal ID	Maximum ID	Wall
24	.020	.0220	.026	.016 +/- .003
23	.24	.0270	.030	.016 +/- .003
22	.025	.0285	.032	.016 +/- .003
21	.030	.0330	.036	.016 +/- .003
20	.032	.0360	.040	.018 +/- .003
19	.036	.0400	.044	.020 +/- .004
18	.040	.0445	.049	.020 +/- .004
17	.045	.0495	.054	.020 +/- .004
16	.051	.0560	.061	.020 +/- .004
15	.057	.0620	.067	.020 +/- .004
14	.064	.0690	.074	.020 +/- .004
13	.072	.0770	.082	.020 +/- .004
12	.081	.0860	.091	.020 +/- .004
11	.091	.0960	.101	.020 +/- .004
10	.102	.1070	.112	.025 +/- .005
9	.114	.1190	.124	.025 +/- .005
8	.129	.1350	.141	.030 +/- .005
7	.144	.1510	.158	.030 +/- .005
6	.162	.1700	.178	.030 +/- .005
5	.182	.1900	.1989	.032 +/- .005



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Fractional Tubing

Fractional Size	Min. ID	Nominal ID	Max. ID	Standard Wall	Thin Wall	Light Wall
1/8	.120	.125	.130	.020 +/- .004	.015 +/- .003	~
1/8	.125	.130	.135	~	~	.008 +/- .002
3/16	.188	.192	.198	.020 +/- .004	.015 +/- .003	.010 +/- .003
1/4	.250	.255	.260	.020 +/- .004	.015 +/- .003	.010 +/- .003
5/16	.313	.321	.332	.020 +/- .004	.015 +/- .003	.012 +/- .003
3/8	.375	.387	.394	.025 +/- .005	.015 +/- .003	.015 +/- .005
7/16	.438	.451	.458	.025 +/- .005	.018 +/- .004	.018 +/- .005
1/2	.500	.515	.520	.025 +/- .005	.018 +/- .004	.018 +/- .005
5/8	.625	.643	.650	.025 +/- .005	.020 +/- .004	.020 +/- .005
3/4	.750	.772	.775	.030 +/- .006	.025 +/- .005	.020 +/- .005
7/8	.875	.902	.927	.035 +/- .007	~	~
1	1.000	1.030	1.060	.035 +/- .007	~	~
1 1/4	1.250	1.287	1.325	.040 +/- .007	~	~
1 1/2	1.500	1.550	1.580	.045 +/- .007	~	~

Metric Tubing

Size	I. D.	O. D.	Wall	Nominal Wall
2mm x 4mm	.079	.157 +/- .005	.040 +/- .003	1mm
3mm x 5mm	.118	.197 +/- .005	.040 +/- .003	1mm
4mm x 6mm	.157	.236 +/- .005	.040 +/- .003	1mm
5mm x 7mm	.197	.276 +/- .005	.040 +/- .003	1mm
6mm x 8mm	.236	.315 +/- .005	.040 +/- .003	1mm
7mm x 9mm	.276	.354 +/- .005	.040 +/- .003	1mm
8mm x 10mm	.315	.394 +/- .005	.040 +/- .003	1mm
9mm x 11mm	.354	.433 +/- .005	.040 +/- .003	1mm
10mm x 12mm	.394	.472 +/- .005	.040 +/- .003	1mm
11mm x 13mm	.433	.512 +/- .005	.040 +/- .003	1mm
12mm x 14mm	.472	.551 +/- .005	.040 +/- .003	1mm
14mm x 16mm	.551	.630 +/- .005	.040 +/- .003	1mm
6mm x 9mm	.236	.354 +/- .005	.059 +/- .003	1.5mm
9mm x 12mm	.354	.472 +/- .005	.059 +/- .003	1.5mm



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Extruded Tubing

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Beading / Monofilament

OD Size	Tolerances	OD Size	Tolerances
Inches		Metric	
.028	+/- .003	.710	+/- .076
.031	+/- .004	.790	+/- .101
.035	+/- .004	.890	+/- .101
.039	+/- .004	.990	+/- .101
.047	+/- .004	1.190	+/- .101
.050	+/- .004	1.270	+/- .101
.055	+/- .004	1.400	+/- .101
.062	+/- .004	1.570	+/- .101
.070	+/- .004	1.780	+/- .101
.078	+/- .004	1.980	+/- .101
.094	+/- .004	2.390	+/- .101
.100	+/- .004	2.540	+/- .101
.109	+/- .004	2.770	+/- .101
.125	+/- .004	3.170	+/- .101
.150	+/- .004	3.810	+/- .101



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Heat Shrink Tubing

PTFE FEP



AWG Size	Expanded ID	Recovered ID	Wall	Mil 23053/12-
30	.034	.015	.009 +/- .002	~
28	.038	.018	.009 +/- .002	~
26	.046	.022	.010 +/- .002	~
24	.050	.027	.012 +/- .002	201
22	.055	.032	.012 +/- .002	202
20	.060	.039	.016 +/- .003	203
19	.065	.043	.016 +/- .003	204
18	.076	.049	.016 +/- .003	205
17	.085	.054	.016 +/- .003	206
16	.093	.061	.016 +/- .003	~
15	.110	.067	.016 +/- .003	207
14	.120	.072	.016 +/- .003	208
13	.140	.080	.016 +/- .003	210
12	.150	.089	.016 +/- .003	211
11	.170	.101	.016 +/- .003	212
10	.191	.122	.016 +/- .003	213
9	.205	.124	.020 +/- .004	214
8	.240	.141	.020 +/- .004	216
7	.270	.158	.020 +/- .004	217
6	.302	.178	.020 +/- .004	218
5	.320	.198	.020 +/- .004	219
4	.370	.224	.020 +/- .004	220
3	.390	.249	.020 +/- .004	221
2	.430	.278	.020 +/- .004	223
1	.450	.311	.020 +/- .004	224
0	.470	.347	.020 +/- .004	226

Dimensionally Compliant to : M 23053/12

AWG # 30 - 28 - 26 SW & LW are not covered under Spec. 23053/12



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Heat Shrink Tubing

PTFE FEP



AWG Size	Expanded ID	Recovered ID	Wall	Mil 23053/12-
30	.034	.015	.009 +/- .002	301
28	.038	.018	.009 +/- .002	302
26	.046	.022	.010 +/- .002	303
24	.050	.027	.010 +/- .002	304
22	.055	.032	.012 +/- .003	305
20	.060	.039	.012 +/- .003	306
19	.065	.043	.012 +/- .003	307
18	.076	.049	.012 +/- .003	308
17	.085	.054	.012 +/- .003	309
16	.093	.061	.012 +/- .003	310
15	.110	.067	.012 +/- .003	311
14	.120	.072	.012 +/- .003	312
13	.140	.080	.012 +/- .003	313
12	.150	.089	.012 +/- .003	314
11	.170	.101	.012 +/- .003	316
10	.191	.122	.012 +/- .003	317
9	.205	.124	.015 +/- .004	318
8	.240	.141	.015 +/- .004	320
7	.270	.158	.015 +/- .004	321
6	.302	.178	.015 +/- .004	322
5	.320	.198	.015 +/- .004	323
4	.370	.224	.015 +/- .004	324
3	.390	.249	.015 +/- .004	325
2	.430	.278	.015 +/- .004	327
1	.450	.311	.015 +/- .004	328
0	.470	.347	.015 +/- .004	330

Dimensionally Compliant to : M 23053/12

AWG # 30 - 28 - 26 SW & LW are not covered under Spec. 23053/12



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Heat Shrink Tubing

PTFE FEP



AWG Size	Expanded ID	Recovered ID	Wall	Mil 23053/12-
30	.034	.015	.006 +/- .002	~
28	.038	.018	.006 +/- .002	~
26	.046	.022	.006 +/- .002	~
24	.050	.027	.006 +/- .002	401
22	.055	.032	.006 +/- .002	402
20	.060	.039	.006 +/- .002	403
19	.065	.043	.006 +/- .002	404
18	.076	.049	.006 +/- .002	405
17	.085	.054	.006 +/- .002	406
16	.093	.061	.006 +/- .002	407
15	.110	.067	.006 +/- .002	408
14	.120	.072	.008 +/- .002	409
13	.140	.080	.008 +/- .002	410
12	.150	.089	.008 +/- .002	411
11	.170	.101	.008 +/- .002	412
10	.191	.122	.008 +/- .002	413
9	.205	.124	.008 +/- .002	414
8	.240	.141	.008 +/- .002	416
7	.270	.158	.008 +/- .002	417
6	.302	.178	.010 +/- .003	418
5	.320	.198	.010 +/- .003	419
4	.370	.224	.010 +/- .003	420
3	.390	.249	.010 +/- .003	421
2	.430	.278	.010 +/- .003	423
1	.450	.311	.010 +/- .003	424
0	.470	.347	.012 +/- .003	426

Dimensionally Compliant to : M 23053/12

AWG # 30 - 28 - 26 SW & LW are not covered under Spec. 23053/12



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Heat Shrink Tubing

PTFE FEP



Fractional PTFE Heat Shrink 2:1 Thin Wall

Fractional Size	Expanded ID	Recovered ID	Recovered Wall	Mil 23053/12-
1/8	.215	.130	.015 +/- .003	319
1/4	.410	.260	.015 +/- .003	326
5/16	.470	.329	.015 +/- .003	329
3/8	.560	.399	.015 +/- .003	~
7/16	.655	.462	.018 +/- .004	~
1/2	.750	.524	.018 +/- .004	~
5/8	.930	.655	.020 +/- .004	~
3/4	1.125	.786	.025 +/- .005	~
7/8	1.310	.911	.030 +/- .006	~
1	1.500	1.036	.030 +/- .006	~

Fractional PTFE Heat Shrink 2:1 Standard Wall

Fractional Size	Expanded ID	Recovered ID	Recovered Wall	Mil 23053/12-
1/8	.215	.130	.020 +/- .004	215
1/4	.410	.260	.020 +/- .004	222
5/16	.470	.329	.020 +/- .004	225
3/8	.560	.399	.025 +/- .006	228
7/16	.655	.462	.025 +/- .006	229
1/2	.750	.524	.025 +/- .006	230
5/8	.930	.655	.030 +/- .006	231
3/4	1.125	.786	.035 +/- .008	232
7/8	1.310	.911	.035 +/- .008	233
1	1.500	1.036	.035 +/- .008	234



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Heat Shrink Tubing

PTFE FEP



Fractional PTFE Heat Shrink 2:1 Industrial Wall

Fractional Size	Expanded ID	Recovered ID	Recovered Wall	Mil 23053/12-
1/8	.166	.130	.030 +/- .005	101
3/16	.250	.193	.030 +/- .005	102
1/4	.333	.257	.030 +/- .005	103
5/16	.415	.320	.030 +/- .005	104
3/8	.498	.383	.030 +/- .005	105
7/16	.580	.448	.030 +/- .006	106
1/2	.666	.510	.030 +/- .006	107
9/16	.748	.572	.030 +/- .006	108
5/8	.830	.637	.030 +/- .006	109
11/16	.915	.700	.032 +/- .006	110
3/4	1.000	.764	.040 +/- .007	111
7/8	1.170	.891	.045 +/- .007	112
1	1.330	1.020	.050 +/- .008	113



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Heat Shrink Tubing

PTFE FEP



Fractional PTFE Heat Shrink 4:1

Fractional Size	Expanded ID	Recovered ID	Recovered Wall	Mil 23053/12-
5/64	.078	.025	.009 +/- .002	501
1/8	.125	.370	.012 +/- .002	502
3/16	.187	.050	.012 +/- .002	503
1/4	.250	.063	.012 +/- .002	504
5/16	.312	.078	.012 +/- .002	505
3/8	.375	.096	.012 +/- .002	506
7/16	.438	.112	.012 +/- .002	507
1/2	.500	.144	.015 +/- .004	508
9/16	.562	.155	.015 +/- .004	509
5/8	.625	.178	.015 +/- .004	510
11/16	.687	.198	.015 +/- .004	511
3/4	.750	.224	.015 +/- .004	512
7/8	.875	.244	.015 +/- .004	513
1	1.000	.278	.015 +/- .004	514
1 1/4	1.250	.347	.015 +/- .004	515
1 1/2	1.500	.400	.015 +/- .004	516
1 3/4	1.750	.450	.015 +/- .004	517
2	2.000	.520	.020 +/- .005	518
2 1/4	2.250	.585	.020 +/- .005	519
2 1/2	2.500	.650	.020 +/- .005	520
2 3/4	2.750	.710	.020 +/- .005	521
3	3.000	.775	.020 +/- .005	522
3 1/4	3.250	.835	.020 +/- .005	523
3 1/2	3.500	.900	.025 +/- .005	524
3 3/4	3.750	.960	.025 +/- .005	525
4	4.000	1.025	.025 +/- .005	526



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Heat Shrink Tubing

PTFE FEP



Dual Shrink PTFE / FEP Light Wall

Size	Expanded ID	Recovered ID	Recovered Wall
TSSL065	.065	.000	.000
TSSL115	.115	.045	.015
TSSL130	.130	.060	.015
TSSL180	.180	.065	.015
TSSL190	.190	.070	.015
TSSL240	.240	.150	.020
TSSL350	.350	.210	.025
TSSL480	.480	.315	.032
TSSL700	.700	.500	.040
TSSL1000	1.000	.700	.040

Dual Shrink PTFE / FEP Standard Wall

Size	Expanded ID	Recovered ID	Recovered Wall
TSSS036	.036	.000	.000
TSSS060	.060	.000	.000
TSSS130	.130	.000	.000
TSSS160	.160	.000	.000
TSSS190	.190	.062	.035
TSSS250	.250	.125	.035
TSSS350	.350	.190	.035
TSSS450	.450	.312	.055
TSSS700	.700	.444	.055
TSSS950	.950	.680	.065



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Heat Shrink Tubing

PTFE FEP



AWG Size	Expanded ID	Recovered ID	Recovered Wall	Mil 23053/11-
24	.031	.027	.008 +/- .002	101
22	.036	.032	.008 +/- .002	102
20	.045	.039	.008 +/- .002	103
18	.060	.049	.008 +/- .002	104
16	.075	.061	.009 +/- .002	105
14	.092	.072	.009 +/- .002	106
12	.115	.089	.009 +/- .002	107
10	.141	.114	.010 +/- .003	108
9	.158	.124	.010 +/- .003	109
8	.180	.143	.010 +/- .003	110
7	.197	.158	.011 +/- .004	111
6	.225	.180	.011 +/- .004	112
5	.248	.198	.011 +/- .004	113
4	.290	.226	.011 +/- .004	114
3	.310	.249	.011 +/- .004	115
2	.365	.289	.012 +/- .004	116
1	.400	.311	.012 +/- .004	117
0	.440	.349	.012 +/- .004	118

Dimensionally Compliant to : M 23053/11

Standard Put Up : 4 ft Lengths (Coils & Custom Lengths Available)



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Heat Shrink Tubing

PTFE FEP



Fractional Heat Shrink FEP Tubing 1.3:1

Size	Expanded ID	Recovered ID	Recovered Wall	Mil 23053/11-
3/8	.500	.383	.015 +/- .004	119
7/16	.580	.448	.020 +/- .004	120
1/2	.666	.510	.020 +/- .004	121
5/8	.830	.637	.025 +/- .004	122
3/4	1.000	.764	.030 +/- .004	123
7/8	1.170	.891	.035 +/- .004	124
1	1.330	1.020	.035 +/- .004	126
1 1/8	1.500	1.145	.035 +/- .004	~
1 1/4	1.666	1.270	.035 +/- .004	~
1 3/8	1.833	1.390	.035 +/- .004	~
1 1/2	2.000	1.570	.035 +/- .004	127

Fractional Heat Shrink FEP Tubing 1.6:1

Size	Expanded ID	Recovered ID	Recovered Wall	Mil 23053/11-
3/32	.093	.056	.008 +/- .003	201
1/8	.125	.075	.010 +/- .003	202
3/16	.188	.115	.010 +/- .003	203
1/4	.250	.150	.010 +/- .003	204
3/8	.375	.225	.012 +/- .003	205
1/2	.500	.300	.015 +/- .004	206
3/4	.750	.450	.020 +/- .004	207
1	1.000	.600	.025 +/- .005	208
1 1/2	1.500	.900	.030 +/- .005	209
2	2.000	1.200	.030 +/- .005	210



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Heat Shrink Tubing PTFE FEP



Heat Shrink FEP Roll Covers 1.25:1

Roll Cover Size	Minimum Exp. ID	Maximum Rec. ID	Recovered Wall
1/2	.550	.440	.020 +/- .003
5/8	.700	.540	.020 +/- .003
3/4	.800	.640	.020 +/- .003
7/8	.950	.760	.020 +/- .003
1	1.100	.880	.020 +/- .003
1 1/4	1.300	1.000	.020 +/- .003
1 1/2	1.700	1.300	.020 +/- .003
2	2.100	1.700	.020 +/- .003
2 1/4	2.300	2.000	.020 +/- .003
2 1/2	2.600	2.100	.020 +/- .003
3	3.100	2.600	.020 +/- .003
3 1/2	3.600	3.100	.020 +/- .003
4	4.200	3.500	.020 +/- .003
5	5.200	4.300	.020 +/- .003
6	6.200	5.200	.020 +/- .003
7	7.200	6.200	.020 +/- .003
8	8.300	7.200	.020 +/- .003
9	9.200	8.300	.020 +/- .003
10 1/2	10.600	9.200	.020 +/- .003
12	12.100	10.600	.020 +/- .003



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Flexible Tubing

PTFE FEP ETFE



Standard Flex Convoluted PTFE

Size	Mil Spec.	Max ID.	Min. ID	Max. OD	Max. Wall	Conv / Inch	Min. Bend Radius
3/16	81914/1-1001	.188	.181	.320	.023	8	.500
9/32	81914/1-1002	.281	.273	.414	.027	7 1/2	.750
5/16	81914/1-1003	.312	.303	.450	.027	7 1/2	.875
3/8	81914/1-1004	.375	.364	.530	.029	7	1.000
7/16	81914/1-1005	.437	.425	.590	.029	7	1.250
1/2	81914/1-1006	.500	.485	.660	.029	7	1.500
5/8	81914/1-1007	.625	.608	.780	.035	7	1.750
3/4	81914/1-1008	.750	.730	.975	.035	6	1.875
7/8	81914/1-1009	.875	.850	1.100	.035	6	2.250
1	81914/1-1010	1.000	.975	1.260	.035	4 1/2	2.500
1 1/8	81914/1-1011	1.125	1.105	1.390	.035	4 1/2	2.750
1 1/4	81914/1-1012	1.250	1.210	1.539	.035	4	3.000
1 1/2	81914/1-1013	1.500	1.440	1.850	.040	4	3.750
1 3/4	81914/1-1014	1.750	1.690	2.100	.045	4	4.250
2	81914/1-1015	2.000	1.940	2.350	.045	4	4.750

Extra Flex Convoluted PTFE

Size	Mil Spec.	Max ID.	Min. ID	Max. OD	Max. Wall	Conv / Inch	Min. Bend Radius
3/16	81914/2-1001	.188	.181	.320	.023	10	.313
9/32	81914/2-1002	.281	.273	.414	.026	9	.438
5/16	81914/2-1003	.312	.306	.450	.027	9	.438
3/8	81914/2-1004	.375	.364	.530	.029	9	.500
7/16	81914/2-1005	.437	.427	.590	.029	9	.500
1/2	81914/2-1006	.500	.485	.660	.029	9	.750
5/8	81914/2-1007	.625	.608	.780	.029	9	.750
3/4	81914/2-1008	.750	.730	.975	.035	8	.938
7/8	81914/2-1009	.875	.860	1.100	.035	8	.938
1	81914/2-1010	1.000	.975	1.260	.035	7	1.125
1 1/8	81914/2-1011	1.125	1.105	1.390	.035	6	1.125
1 1/4	81914/2-1012	1.250	1.210	1.539	.035	6	1.250
1 1/2	81914/2-1013	1.500	1.450	1.810	.038	6	2.000



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Standard Flex Convoluted FEP

Size	Mil Spec.	Max ID.	Min. ID	Max. OD	Max. Wall	Conv / Inch	Min. Bend Radius
3/16	81914/3-1001	.188	.181	.320	.018	8	.500
9/32	81914/3-1002	.281	.273	.414	.018	8	.750
5/16	81914/3-1003	.312	.306	.450	.018	8	.750
3/8	81914/3-1004	.375	.364	.510	.018	8	.875
7/16	81914/3-1005	.437	.427	.571	.018	8	.875
1/2	81914/3-1006	.500	.485	.650	.023	7	1.250
5/8	81914/3-1007	.625	.608	.770	.023	7	1.500
3/4	81914/3-1008	.750	.730	.930	.023	6	1.750
7/8	81914/3-1009	.875	.860	1.073	.023	5	2.000
1	81914/3-1010	1.000	.975	1.226	.023	5	2.370
1 1/8	81914/3-1011	1.125	1.105	1.390	.023	5	2.370
1 1/4	81914/3-1012	1.250	1.210	1.539	.023	4	2.750
1 1/2	81914/3-1013	1.500	1.437	1.832	.023	4	3.380

Extra Flex Convoluted FEP

Size	Mil Spec.	Max ID.	Min. ID	Max. OD	Max. Wall	Conv / Inch	Min. Bend Radius
3/16	81914/4-1001	.188	.181	.320	.018	10	.310
9/32	81914/4-1002	.281	.273	.414	.018	10	.410
5/16	81914/4-1003	.312	.306	.450	.018	10	.410
3/8	81914/4-1004	.375	.359	.510	.018	10	.500
7/16	81914/4-1005	.437	.427	.571	.018	10	.500
1/2	81914/4-1006	.500	.480	.650	.023	9	.750
5/8	81914/4-1007	.625	.603	.770	.023	9	.750
3/4	81914/4-1008	.750	.725	.930	.023	8	.930
7/8	81914/4-1009	.875	.860	1.073	.023	7	1.250
1	81914/4-1010	1.000	.970	1.226	.023	7	1.250
1 1/8	81914/4-1011	1.125	1.105	1.390	.023	7	1.430
1 1/4	81914/4-1012	1.250	1.205	1.539	.023	6 1/2	1.430
1 1/2	81914/4-1013	1.500	1.437	1.832	.023	6 1/2	1.750



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Standard Flex Convoluted ETFE

Size	Mil Spec.	Max ID.	Min. ID	Max. OD	Max. Wall	Conv / Inch	Min. Bend Radius
3/16	81914/6-1001	.188	.181	.320	.018	8	.500
9/32	81914/6-1002	.281	.273	.414	.018	8	.750
5/16	81914/6-1003	.312	.306	.450	.018	8	.750
3/8	81914/6-1004	.375	.364	.510	.018	8	.875
7/16	81914/6-1005	.437	.427	.571	.018	8	.875
1/2	81914/6-1006	.500	.485	.650	.023	7	1.250
5/8	81914/6-1007	.625	.608	.770	.023	7	1.500
3/4	81914/6-1008	.750	.730	.930	.023	6	1.750
7/8	81914/6-1009	.875	.860	1.073	.023	5	2.000
1	81914/6-1010	1.000	.975	1.226	.023	5	2.370
1 1/8	81914/6-1011	1.125	1.105	1.390	.023	5	2.370
1 1/4	81914/6-1012	1.250	1.210	1.539	.023	4	2.750
1 1/2	81914/6-1013	1.500	1.437	1.832	.023	4	3.380

Extra Flex Convoluted ETFE

Size	Mil Spec.	Max ID.	Min. ID	Max. OD	Max. Wall	Conv / Inch	Min. Bend Radius
3/16	81914/5-1001	.188	.181	.320	.018	10	.310
9/32	81914/5-1002	.281	.273	.414	.018	10	.410
5/16	81914/5-1003	.312	.306	.450	.018	10	.410
3/8	81914/5-1004	.375	.359	.510	.018	10	.500
7/16	81914/5-1005	.437	.427	.571	.018	10	.500
1/2	81914/5-1006	.500	.480	.650	.023	9	.750
5/8	81914/5-1007	.625	.603	.770	.023	9	.750
3/4	81914/5-1008	.750	.725	.930	.023	8	.930
7/8	81914/5-1009	.875	.860	1.073	.023	7	1.250
1	81914/5-1010	1.000	.970	1.226	.023	7	1.250
1 1/8	81914/5-1011	1.125	1.105	1.390	.023	7	1.430
1 1/4	81914/5-1012	1.250	1.205	1.539	.023	6	1.430
1 1/2	81914/5-1013	1.500	1.437	1.832	.023	5	1.750



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Low Profile Convoluted PTFE

Size	Minimum ID	Maximum ID	Maximum OD	Nominal Wall	Min. Bend Radius
3/8	.394	.406	.560	.023	.500
1/2	.490	.510	.700	.023	.750
3/4	.740	.760	.980	.035	.938
1	.990	1.010	1.260	.035	1.130
1 1/4	1.210	1.250	1.539	.035	3.000
1 1/2	1.440	1.500	1.850	.037	3.750
1 3/4	1.690	1.750	2.100	.040	4.250
2	2.010	2.030	2.370	.043	4.750

Heavy Wall Convoluted PTFE

Size	Minimum ID	Maximum ID	Maximum OD	Nominal Wall	Min. Bend Radius
1/4	.257	.265	.415	.025	.750
3/8	.335	.345	.510	.025	1.000
1/2	.454	.466	.700	.035	1.500
3/4	.683	.701	1.010	.050	1.880
1	.841	.859	1.150	.053	2.500
1 1/4	1.125	1.145	1.610	.062	3.130
1 1/2	1.420	1.480	1.880	.062	3.750
1 3/4	1.540	1.600	2.100	.062	4.500
2	1.770	1.830	2.432	.062	4.750
2 1/2	2.460	2.540	3.210	.062	5.000
3	2.940	3.060	3.750	.070	7.000
4	3.940	4.060	4.750	.070	9.000



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Convolutd PTFE w/Cuffs

Size	Cuff ID	Cuff Length	Nominal Wall	Min. ID	Max. ID	Max. OD
CONVO-4	1/4	1.000	.015	.181	.188	.320
CONVO-5	5/16	1.000	.020	.273	.281	.414
CONVO-6	3/8	1.000	.020	.303	.312	.450
CONVO-8	1/2	1.000	.020	.425	.437	.590
CONVO-10	5/8	1.250	.025	.485	.500	.660
CONVO-12	3/4	1.500	.025	.608	.625	.780
CONVO-16	1	2.000	.030	.849	.875	1.100
CONVO-20	1 1/4	2.500	.035	1.150	1.1190	1.560
CONVO-24	1 1/2	2.500	.040	1.410	1.490	1.910
CONVO-32	2	2.500	.043	1.960	1.990	2.450
CONVO-40	2 1/2	3.000	.062	2.460	2.540	3.190
CONVO-48	3	3.000	.062	2.940	3.060	3.750
CONVO-64	4	3.000	.062	3.940	4.060	4.750

Corrugated FEP Tubing

Size	Max. ID	Cuff Length	Nominal Wall	OD Reference	Min. Bend Diameter	Burst Pressure
1/4	.250	1.000	.015	.375	.125	250 psi
3/8	.375	1.000	.020	.625	.187	200 psi
1/2	.500	1.000	.025	.750	.250	170 psi
5/8	.625	1.000	.025	.938	.312	150 psi
3/4	.750	1.500	.030	1.063	.375	120 psi
7/8	.875	1.500	.0360	1.250	.438	100 psi
1	1.000	2.000	.035	1.438	.500	80 psi
1 1/4	1.250	2.000	.035	1.625	.625	70 psi
1 1/2	1.500	2.000	.035	1.813	.750	60 psi
2	2.000	2.000	.040	2.625	1.000	50 psi
2 1/2	2.510	2.500	.070	3.360	2.50	75 psi



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Spiral Wrap Tubing

Size (OD)	Tubing ID	Wall	Max Bundle Dia.	Pitch
1/8	1/16	.030 +/- .005	1/2	1/4
3/16	1/8	.030 +/- .005	1	1/32
1/4	3/16	.030 +/- .005	2	3/8
5/16	1/4	.030 +/- .005	2 1/2	3/8
3/8	5/16	.030 +/- .005	3	7/16
1/2	7/16	.030 +/- .005	4	9/16
5/8	9/16	.030 +/- .005	5	5/8
3/4	11/16	.032 +/- .005	6	7/8
1	15/16	.040 +/- .005	8	1



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Fluoropolymers

Properties	ASTM	UNIT	PTFE	FEP	PFA	ECTFE	MFA
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Mechanical Properties

Specific Gravity	D792		2.130 - 2.20	2.12 - 2.17	2.12 - 2.17	1.68	2.12 - 2.17
Elongation	D638	%	200 - 450	250 - 330	280 - 400	200 - 300	300 - 600
Tensile Strength	D638	PSI	2,000-45,000	2,800 - 5,000	4,000 - 4,500	6,600 - 7,800	3,500 - 4,400
Flexural Strength	D790	PSI	no break	no break	no break	7000	N/A
Compressive Strength	D695	PSI	3500	2200		1276 - 1711	2200
Tensile Elastic Modulus	D638	PSI	57,000	50,000	72.5K - 87K	240,000	65K - 78K
Flexural Modulus	D790	PSI	71K - 85K	78K - 92K	94K - 99K	240K	95K
Flex Life	D2176	MIT Cycles	> 1,000,000	5K - 80K	10K - 50K	N/A	10K - 100K
Hardness Durometer		Shore D	D56 - D65	D55	D55 - D60	D75 - D90	D55 - D60
Coefficient of Friction		On Steel	0.02	0.05	0.02	0.19	0.02
Abrasion Resistance	Taber	1000 Revs.	12	14 - 20	9 - 17	0.005	10 - 17

Thermal Properties

Melting Point		°C	327	260	305	240	285
		°F	621	500	582	464	545
Upper Service Temp		°C	260	204	260	150 - 170	260
		°F	500	400	500	300 - 340	500
Flamibility		UL 94	V-0	V-0	V-0	V-0	V-0
Linear Coefficient of Thermal Expansion	D696	10 ⁻⁵ °C	>11.6	8.0 - 10.5	13	N/A	11 - 12
Heat of Fusion		BTU/LB	29-37	11	13	N/A	25.6
Heat of Combustion		BTU/LB	2,200	2,200	2,300	N/A	6,200
Low Temperature Embrittlement		°C	- 268	- 268	- 268	- 76	- 232
		°F	- 450	- 450	- 450	- 105	- 450

Electrical Properties

Dielectric Constant	D150	10 ³ Hz	2.1	2.1	2.1	2.5	2.0
Dielectric Strength 10 mil Film	D149	v/mil	≥ 1,400	≥ 1,400	≥ 1,400	N/A	2,000
Volume Resistivity	D257	ohm-cm	> 10 ¹⁸	> 10 ¹⁸	> 10 ¹⁸	> 10 ¹⁶	> 10 ¹⁷
Surface Resistivity	D257	ohm/sq.	> 10 ¹⁷	> 10 ¹⁷	> 10 ¹⁷	> 10 ¹⁴	> 10 ¹⁷

General Properties

Chemical / Solvent Resistance	D543		Excellent	Excellent	Excellent	Excellent	Excellent
Water Absorption 24hr	D570	%	<.01	<.01	<.03	<.01	<.03
Deformation Under Load	D621	100 °C	5.0	5.0	2.4	2.6	N/A
Refractive Index			1.35	1.338	1.34	1.447	N/A
Limiting Oxygen Index	D2863	%	> 95	> 95	> 95	60	> 95
Properties	ASTM	UNIT	PTFE	FEP	PFA	ECTFE	MFA