

# PTFE 2:1

## *AWG and Fractional Sizes*

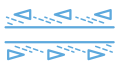


PTFE Heat Shrink is available with shrink ratios of 2:1 and 4:1.

## *Overview*

Zeus began extruding PTFE more than 50 years ago. Regarded as the gold standard of fluoropolymers, our PTFE heat shrink tubing has the lubricity, chemical resistance, and temperature endurance preferred by medical and non-medical industries.

Zeus PTFE heat shrink is available with shrink ratios of 2:1 and 4:1. With an upper service temperature of 260 °C (500 °F) and a lower limit to -200 °C (-328 °F), these heat shrink products have one of the broadest working temperatures available. PTFE heat shrink possesses excellent dielectric strength making it highly suited for the encapsulation of wires and electrical components. For outdoor use, PTFE heat shrink is nearly impervious to weather. Our 2:1 PTFE heat shrink tubing is available in fractional sizes from 1/8" to 1" and AWG sizes 30 to 0. Our 2:1 PTFE heat shrink is also available in standard, thin, industrial, and lightweight wall thicknesses.



COEFFICIENT OF FRICTION



BIOCOMPATIBLE



CHEMICAL RESISTANCE

## *Applications*

- *Encapsulation*
- *Insulation*
- *Wire splicing*

## *Capabilities and Sizing*

- *Fractional sizes from 1/8" to 1"*
- *AWG sizes from 30 to 0*
- *Shrink ratio of 2:1*
- *Colors*

## *Key Properties*

- *Low coefficient of friction*
- *USP Class VI biocompatible*
- *Chemically resistant*
- *Excellent dielectric strength*
- *Flame resistant*
- *Sterilizable (ETO)*
- *Broad working temperature range*  
-328 °F to 500 °F (-200 °C to 260 °C)



# PTFE 2:1 Ratio

## *AWG and Fractional Sizes*

PTFE heat shrink is supplied in natural color, custom Pantone colors, or Zeus standard colors, all available upon request. Standard lengths are 4 ft.; cut pieces and continuous lengths are also available upon request. \*AWG 30, 28, 26 and LW are not covered under AMS 23053/12. All others comply. Free samples are available upon request.

PTFE 2:1 STANDARD WALL (CLASS 2) AND THIN WALL (CLASS 3)												
ORDERED AS AWG SIZE NO.	EXPANDED INSIDE DIAMETER (ID) MIN.		RECOVERED DIMENSIONS AFTER SHRINKAGE									
			ID MAX.		STANDARD WALL THICKNESS				THIN WALL THICKNESS			
					NOMINAL		TOLERANCE (±)		NOMINAL		TOLERANCE (±)	
					in.	mm	in.	mm	in.	mm	in.	mm
30*	0.034	0.864	0.015	0.381	0.009	0.229	0.002	0.051	0.009	0.229	0.002	0.051
28*	0.038	0.965	0.018	0.457	0.009	0.229	0.002	0.051	0.009	0.229	0.002	0.051
26*	0.046	1.168	0.022	0.559	0.010	0.254	0.002	0.051	0.010	0.254	0.002	0.051
24	0.050	1.270	0.027	0.686	0.012	0.305	0.002	0.051	0.010	0.254	0.002	0.051
22	0.055	1.397	0.032	0.813	0.012	0.305	0.002	0.051	0.012	0.305	0.003	0.051
20	0.060	1.524	0.039	0.991	0.016	0.406	0.003	0.076	0.012	0.305	0.003	0.076
19	0.065	1.651	0.043	1.092	0.016	0.406	0.003	0.076	0.012	0.305	0.003	0.076
18	0.076	1.930	0.049	1.245	0.016	0.406	0.003	0.076	0.012	0.305	0.003	0.076
17	0.085	2.159	0.054	1.372	0.016	0.406	0.003	0.076	0.012	0.305	0.003	0.076
16	0.093	2.362	0.061	1.549	0.016	0.406	0.003	0.076	0.012	0.305	0.003	0.076
15	0.110	2.794	0.067	1.702	0.016	0.406	0.003	0.076	0.012	0.305	0.003	0.076
14	0.120	3.048	0.072	1.829	0.016	0.406	0.003	0.076	0.012	0.305	0.003	0.076
13	0.140	3.556	0.080	2.032	0.016	0.406	0.003	0.076	0.012	0.305	0.003	0.076
12	0.150	3.810	0.089	2.261	0.016	0.406	0.003	0.076	0.012	0.305	0.003	0.076
11	0.170	4.318	0.101	2.565	0.016	0.406	0.003	0.076	0.012	0.305	0.003	0.076
10	0.191	4.851	0.112	2.845	0.016	0.406	0.003	0.076	0.012	0.305	0.003	0.076
9	0.205	5.207	0.124	3.150	0.020	0.508	0.004	0.102	0.015	0.381	0.004	0.102
8	0.240	6.096	0.141	3.581	0.020	0.508	0.004	0.102	0.015	0.381	0.004	0.102
7	0.270	6.858	0.158	4.013	0.020	0.508	0.004	0.102	0.015	0.381	0.004	0.102
6	0.302	7.671	0.178	4.521	0.020	0.508	0.004	0.102	0.015	0.381	0.004	0.102
5	0.320	8.128	0.198	5.029	0.020	0.508	0.004	0.102	0.015	0.381	0.004	0.102
4	0.370	9.398	0.224	5.690	0.020	0.508	0.004	0.102	0.015	0.381	0.004	0.102
3	0.390	9.906	0.249	6.325	0.020	0.508	0.004	0.102	0.015	0.381	0.004	0.102
2	0.430	10.922	0.278	7.061	0.020	0.508	0.004	0.102	0.015	0.381	0.004	0.102
1	0.450	11.430	0.311	7.899	0.020	0.508	0.004	0.102	0.015	0.381	0.004	0.102
0	0.470	11.938	0.347	8.814	0.020	0.508	0.004	0.102	0.015	0.381	0.004	0.102

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## *AWG and Fractional Sizes*

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LIGHTWEIGHT WALL (CLASS 4)								
ORDERED AS AWG SIZE NO.	EXPANDED INSIDE DIAMETER (ID) MIN.		RECOVERED DIMENSIONS AFTER SHRINKAGE					
			ID MAX.		WALL THICKNESS			
					NOMINAL		TOLERANCE (±)	
	in.	mm	in.	mm	in.	mm	in.	mm
30*	0.034	0.864	0.015	0.381	0.006	0.152	0.002	0.051
28*	0.038	0.965	0.018	0.457	0.006	0.152	0.002	0.051
26*	0.046	1.168	0.022	0.559	0.006	0.152	0.002	0.051
24	0.050	1.270	0.025	0.635	0.006	0.152	0.002	0.051
22	0.055	1.397	0.031	0.787	0.006	0.152	0.002	0.051
20	0.060	1.524	0.038	0.965	0.006	0.152	0.002	0.051
19	0.065	1.651	0.043	1.092	0.006	0.152	0.002	0.051
18	0.076	1.930	0.046	1.168	0.006	0.152	0.002	0.051
17	0.085	2.159	0.054	1.372	0.006	0.152	0.002	0.051
16	0.093	2.362	0.057	1.448	0.006	0.152	0.002	0.051
15	0.110	2.794	0.063	1.600	0.006	0.152	0.002	0.051
14	0.120	3.048	0.072	1.829	0.008	0.203	0.002	0.051
13	0.140	3.556	0.080	2.032	0.008	0.203	0.002	0.051
12	0.150	3.810	0.089	2.261	0.008	0.203	0.002	0.051
11	0.170	4.318	0.099	2.515	0.008	0.203	0.002	0.051
10	0.191	4.851	0.110	2.794	0.008	0.203	0.002	0.051
9	0.205	5.207	0.122	3.099	0.008	0.203	0.002	0.051
8	0.240	6.096	0.139	3.531	0.008	0.203	0.002	0.051
7	0.270	6.858	0.154	3.912	0.008	0.203	0.002	0.051
6	0.302	7.671	0.172	4.369	0.010	0.254	0.003	0.076
5	0.320	8.128	0.192	4.877	0.010	0.254	0.003	0.076
4	0.370	9.398	0.214	5.436	0.010	0.254	0.003	0.076
3	0.390	9.906	0.241	6.121	0.010	0.254	0.003	0.076
2	0.430	10.922	0.270	6.858	0.010	0.254	0.003	0.076
1	0.450	11.430	0.301	7.645	0.010	0.254	0.003	0.076
0	0.470	11.938	0.347	8.814	0.012	0.305	0.003	0.076

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STANDARD WALL (CLASS 2) AND THIN WALL (CLASS 3)												
ORDERED AS ID (in.)	EXPANDED INSIDE DIAMETER (ID) MIN.		RECOVERED DIMENSIONS AFTER SHRINKAGE									
			ID MAX.		WALL THICKNESS				WALL THICKNESS			
					NOMINAL		TOLERANCE (±)		NOMINAL		TOLERANCE (±)	
	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm
1/8	0.215	5.461	0.130	3.302	0.020	0.508	0.004	0.102	0.015	0.381	0.003	0.076
1/4	0.410	10.414	0.260	6.604	0.020	0.508	0.004	0.102	0.015	0.381	0.003	0.076
5/16	0.470	11.938	0.329	8.357	0.020	0.508	0.004	0.102	0.015	0.381	0.003	0.076
3/8	0.560	14.224	0.399	10.135	0.025	0.635	0.006	0.152	0.015	0.381	0.003	0.076
7/16	0.655	16.637	0.462	11.735	0.025	0.635	0.006	0.152	0.018	0.457	0.004	0.102
1/2	0.750	19.050	0.524	13.310	0.025	0.635	0.006	0.152	0.018	0.457	0.004	0.102
5/8	0.930	23.622	0.655	16.637	0.030	0.762	0.006	0.152	0.020	0.508	0.004	0.102
3/4	1.125	28.575	0.786	19.964	0.035	0.889	0.008	0.203	0.025	0.635	0.005	0.127
7/8	1.310	33.274	0.911	23.139	0.035	0.889	0.008	0.203	0.030	0.762	0.006	0.152
1	1.500	38.100	1.036	26.314	0.035	0.889	0.008	0.203	0.030	0.762	0.006	0.152

INDUSTRIAL WALL (CLASS 1) AND LIGHTWEIGHT WALL (CLASS 4)																
ORDERED AS ID (in.)	EXPANDED INSIDE DIAMETER (ID) MIN.		RECOVERED DIMENSIONS AFTER SHRINKAGE						EXPANDED INSIDE DIAMETER (ID) MIN.		RECOVERED DIMENSIONS AFTER SHRINKAGE					
			ID MAX.		WALL THICKNESS						ID MAX.		WALL THICKNESS			
					NOMINAL		TOLERANCE (±)						NOMINAL		TOLERANCE (±)	
	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm
1/8	0.166	4.216	0.130	3.302	0.030	0.762	0.005	0.13	0.215	5.461	0.130	3.302	0.008	0.203	0.002	0.051
3/16	0.250	6.350	0.193	4.902	0.030	0.762	0.005	0.13	-	-	-	-	-	-	-	-
1/4	0.333	8.458	0.257	6.528	0.030	0.762	0.005	0.13	0.410	10.414	0.260	6.604	0.010	0.254	0.003	0.076
5/16	0.415	10.541	0.320	8.128	0.030	0.762	0.005	0.13	0.470	11.938	0.329	8.357	0.012	0.305	0.003	0.076
3/8	0.489	12.421	0.383	9.728	0.030	0.762	0.005	0.13	-	-	-	-	-	-	-	-
7/16	0.580	14.732	0.448	11.379	0.030	0.762	0.005	0.15	-	-	-	-	-	-	-	-
1/2	0.666	16.916	0.510	12.954	0.030	0.762	0.006	0.15	-	-	-	-	-	-	-	-
9/16	0.748	18.999	0.572	14.529	0.030	0.762	0.006	0.15	-	-	-	-	-	-	-	-
5/8	0.830	21.082	0.637	16.180	0.030	0.762	0.006	0.15	-	-	-	-	-	-	-	-
11/16	0.915	23.241	0.700	17.780	0.032	0.813	0.006	0.15	-	-	-	-	-	-	-	-
3/4	1.000	25.400	0.764	19.406	0.040	1.016	0.007	0.18	-	-	-	-	-	-	-	-
7/8	1.170	29.718	0.891	22.631	0.045	1.143	0.007	0.18	-	-	-	-	-	-	-	-
1	1.330	33.782	1.020	25.908	0.050	1.27	0.008	0.20	-	-	-	-	-	-	-	-