

PTFE 2:1

AWG And Fractional Sizes

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), 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 $\frac{1}{8}$ " 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.



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

APPLICATIONS

- Encapsulation
- Insulation
- Wire splicing

CAPABILITIES AND SIZING

- Fractional sizes from $\frac{1}{8}$ " to 1"
- AWG sizes from 30 to 0
- Colors

KEY PROPERTIES

- Low coefficient of friction
- Class VI approved resins available
- Chemical resistance
- Excellent dielectric strength
- Flame resistance
- Sterilizable (ETO)
- Working temperature to 260 °C (500 °F)
- AS23053/12 product available upon request



COEFFICIENT OF FRICTION



FLAME RESISTANCE



CHEMICAL RESISTANCE



ZEUS®

PTFE 2:1 Ratio

PTFE heat shrink is supplied in natural color. Custom colors are available upon request. Standard lengths are 4 ft; cut pieces and continuous lengths are also available upon request.

| PTFE 2:1 STANDARD WALL AND THIN WALL | | | | | | | | | | | | |
|--------------------------------------|------------------------------------|--------|---------|--------------------------------------|-------|-------|-------|---------------------|-------|-------|--------|-------|
| ORDERED AS AWG SIZE NO. | EXPANDED INSIDE DIAMETER (ID) MIN. | | ID MAX. | RECOVERED DIMENSIONS AFTER SHRINKAGE | | | | | | | | |
| | | | | STANDARD WALL THICKNESS | | | | THIN WALL THICKNESS | | | | |
| | in. | mm | | 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 | 0.003 | 0.051 |
| 24 | 0.050 | 1.270 | 0.027 | 0.686 | 0.012 | 0.305 | 0.002 | 0.051 | 0.010 | 0.254 | 0.0023 | 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 |



PTFE 2:1 Ratio

PTFE heat shrink is supplied in natural color. Custom colors are available upon request. Standard lengths are 4 ft; cut pieces and continuous lengths are also available upon request.

| LIGHTWEIGHT WALL | | | | | | | | | |
|----------------------------|---------------------------------------|--------|---------|-------|--------------------------------------|-------|-------|-------|---------------------------------------|
| ORDERED AS AWG SIZE NO. | EXPANDED INSIDE DIAMETER (ID) MIN. | | ID MAX. | | RECOVERED DIMENSIONS AFTER SHRINKAGE | | | | WALL THICKNESS TOLERANCE (\pm) |
| | | | in. | mm | in. | mm | in. | mm | |
| | 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 | 0.002 | 0.076 | |
| 5 | 0.320 | 8.128 | 0.192 | 4.877 | 0.010 | 0.254 | 0.002 | 0.076 | |
| 4 | 0.370 | 9.398 | 0.214 | 5.436 | 0.010 | 0.254 | 0.002 | 0.076 | |
| 3 | 0.390 | 9.906 | 0.241 | 6.121 | 0.010 | 0.254 | 0.002 | 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 | |



PTFE 2:1 Ratio

PTFE heat shrink is supplied in natural color. Custom colors are available upon request. Standard lengths are 4 ft; cut pieces and continuous lengths are also available upon request.

STANDARD WALL AND THIN WALL

| ORDERED AS ID (in.) | EXPANDED INSIDE DIAMETER (ID) MIN. | RECOVERED DIMENSIONS AFTER SHRINKAGE | | | | | | | | | | | |
|---------------------|------------------------------------|--------------------------------------|-------|---------------|-------|---------------------|-------|-----------|-------|---------------------|-------|-------|----|
| | | ID MAX. | | STANDARD WALL | | | | THIN WALL | | | | | |
| | | | | NOMINAL | | TOLERANCE (\pm) | | NOMINAL | | TOLERANCE (\pm) | | | |
| | | 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 AND LIGHTWEIGHT WALL

| 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 | | ID MAX. | | WALL THICKNESS | | | |
| | | | | NOMINAL | TOLERANCE (\pm) | | | | NOMINAL | TOLERANCE (\pm) | | | NOMINAL | TOLERANCE (\pm) | | |
| | | 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 | 0.006 | 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 | - | - | - | - | - | - | - | - |

