



# DUAL-SHRINK<sup>®</sup>

PTFE HEAT SHRINK OVER FEP TUBING

ADVANCED POLYMER SCIENCE FOR NEW TECHNOLOGIES

Zeus Dual-Shrink<sup>®</sup> tubing of fluoropolymer PTFE/FEP is constructed with an exterior of heat shrink PTFE and an inner layer of FEP. It is designed to provide a tight, moisture-proof bond over wires, cables, connectors, splices, terminals, and other components.

The PTFE shrinks tightly over inserted parts when the covered section is heated, while the FEP melts and flows into a solid or near-solid encapsulation with a fit so tight that it can withstand the most severe stresses involving pull or vibration. Zeus Dual-Shrink<sup>®</sup> tubing provides all the outstanding electrical, chemical, and mechanical properties of PTFE, including a service temperature up to 450° F (232° C). Custom specifications and tolerances can be quoted upon request.

Zeus continues to provide superior products with the highest standards of quality and control. Please contact Zeus for samples for testing and prototype builds.

## ADVANCING YOUR IDEAS

*Your ideas have the potential to transform the world. The right partners will help make it happen. Talk to Zeus about how polymer science can advance your ideas. We welcome the opportunity to collaborate with you.*

## KEY PROPERTIES:

- Service temperature up to 450° F (232° C)
- Protects against corrosion
- Has an outstanding abrasion resistance
- Provides a tight, moisture-proof encapsulation

## TECHNICAL NOTES:

- Outer tubing of PTFE shrinks for tight fit when heat is applied
- Inner layer of FEP melts and flows to encapsulate parts
- PTFE heat shrink recovery temperature between 654° F (346° C) - 670° F (354° C)

STANDARD WALL (INCHES)				LIGHTWEIGHT WALL (INCHES)			
AS SUPPLIED			RECOVERED DIMENSION AFTER SHRINKING	AS SUPPLIED			RECOVERED DIMENSION AFTER SHRINKING
Item #	I.D. Min	Minimum Shrink Point	Total Wall Thickness - Norm.	Item #	I.D. Min	Minimum Shrink Point	Total Wall Thickness - Norm.
ZDS-S-036	0.036	–	N/A	ZDS-L-065	0.065	–	N/A
ZDS-S-060	0.060	–	N/A	ZDS-L-115	0.115	0.045	0.015
ZDS-S-130	0.130	–	N/A	ZDS-L-130	0.130	0.060	0.015
ZDS-S-160	0.160	–	N/A	ZDS-L-180	0.180	0.065	0.015
ZDS-S-190	0.190	0.062	0.035	ZDS-L-190	0.190	0.070	0.015
ZDS-S-250	0.250	0.125	0.035	ZDS-L-240	0.240	0.150	0.020
ZDS-S-350	0.350	0.190	0.035	ZDS-L-350	0.350	0.210	0.025
ZDS-S-450	0.450	0.312	0.055	ZDS-L-480	0.480	0.315	0.032
ZDS-S-700	0.700	0.440	0.055	ZDS-L-700	0.700	0.500	0.040
ZDS-S-950	0.950	0.630	0.065	ZDS-L-1000	1.000	0.700	0.045

\*Sizes and dimensions in inches

\*Standard lengths – 4 foot

\*Colors quoted upon request

STANDARD WALL (MILLIMETERS)				LIGHTWEIGHT WALL (MILLIMETERS)			
AS SUPPLIED			RECOVERED DIMENSION AFTER SHRINKING	AS SUPPLIED			RECOVERED DIMENSION AFTER SHRINKING
Item #	I.D. Min	Minimum Shrink Point	Total Wall Thickness - Norm.	Item #	I.D. Min	Minimum Shrink Point	Total Wall Thickness - Norm.
ZDS-S-036	0.091	–	N/A	ZDS-L-065	1.650	–	N/A
ZDS-S-060	1.520	–	N/A	ZDS-L-115	2.920	1.140	0.380
ZDS-S-130	3.300	–	N/A	ZDS-L-130	3.300	1.520	0.380
ZDS-S-160	4.060	–	N/A	ZDS-L-180	4.570	1.650	0.380
ZDS-S-190	4.830	1.570	0.889	ZDS-L-190	4.830	1.780	0.380
ZDS-S-250	6.350	3.180	0.889	ZDS-L-240	6.100	3.810	0.510
ZDS-S-350	8.890	4.830	0.889	ZDS-L-350	8.890	5.330	0.640
ZDS-S-450	11.43	7.920	1.397	ZDS-L-480	12.19	8.000	0.810
ZDS-S-700	17.78	11.18	1.397	ZDS-L-700	17.78	12.70	1.020
ZDS-S-950	24.13	16.00	1.651	ZDS-L-1000	25.40	17.78	1.140

\*Sizes and dimensions in millimeters.

\*Standard lengths – 1.22 meter