

Dual-Shrink™

PTFE/FEP Encapsulation

Overview-

Dual-Shrink™ features an external layer of PTFE heat shrink and an inner layer of FEP. This product provides a tight and moisture-proof encapsulation over wires, cables, connectors, sensors, terminals, splices, and many other components.

When heated the outer layer of PTFE shrinks while the inner FEP layer flows into a solid or near-solid encapsulation with a fit so tight that it can withstand the highest stresses from pulling, vibration, and other physical trauma. Dual-Shrink™ provides all of the outstanding electrical, chemical, and mechanical properties of PTFE and FEP combined into a superior heat shrink for the most secure encapsulations. We offer Dual-Shrink™ in custom sizes, tolerances, colors, and lengths upon request. Other resin combinations may also be available.

Wire splicing technicians in aerospace, medical, oil and gas, automotive, and electrical industries have relied on Zeus to provide robust heat shrinkable products to meet a broad spectrum of their demands. Our Dual-Shrink™ tubing delivers this same high performance and more to our customers around the world.



COEFFICIENT OF FRICTION



CHEMICAL RESISTANCE



DIELECTRIC STRENGTH



Dual-Shrink™ forms tightly over varied component shapes and forms creating a lock-tight encapsulation.

APPLICATIONS

- Component encapsulation
- Electrical connections
- Wire splicing

CAPABILITIES AND SIZING

- Standard and lightweight wall thicknesses
- Standard sizes up to 1" (25.4 mm) in diameter
- Custom sizing also available
- Colors
- Striping

KEY PROPERTIES

- Tight, moisture-proof encapsulation
- Chemical resistance
- Sterilizable
- Protection against corrosion
- Working temperature up to 450 °F / 232 °C



Dual-Shrink™

Dual-Shrink™ is packaged in standard 4 ft. lengths unless otherwise specified. Custom colors available on request. Free samples available upon request.

STANDARD WALL						
ITEM NO.	AS SUPPLIED ID MIN.		RECOVERED DIMENSION AFTER SHRINKING ID WILL SHRINK TO AT LEAST:		TOTAL WALL THICKNESS: NOMINAL	
	in.	mm	in.	mm	in.	mm
ZDS-S-036	0.036	0.914	0.000	0.000	N/A	N/A
ZDS-S-060	0.060	1.524	0.000	0.000	N/A	N/A
ZDS-S-130	0.130	3.302	0.000	0.000	N/A	N/A
ZDS-S-160	0.160	4.064	0.000	0.000	N/A	N/A
ZDS-S-190	0.190	4.826	0.062	1.575	0.035	0.889
ZDS-S-250	0.250	6.350	0.125	3.175	0.035	0.889
ZDS-S-350	0.350	8.890	0.190	4.826	0.035	0.889
ZDS-S-450	0.450	11.430	0.312	7.925	0.055	1.397
ZDS-S-700	0.700	17.780	0.440	11.176	0.055	1.397
ZDS-S-950	0.950	24.130	0.630	16.002	0.065	1.651

LIGHTWEIGHT WALL						
ITEM NO.	AS SUPPLIED ID MIN.		RECOVERED DIMENSION AFTER SHRINKING ID WILL SHRINK TO AT LEAST:		TOTAL WALL THICKNESS: NOMINAL	
	in.	mm	in.	mm	in.	mm
ZDS-L-065	0.065	1.651	0.000	0.000	N/A	N/A
ZDS-L-115	0.115	2.921	0.045	1.143	0.015	0.381
ZDS-L-130	0.130	3.302	0.060	1.524	0.015	0.381
ZDS-L-180	0.180	4.572	0.065	1.651	0.015	0.381
ZDS-L-190	0.190	4.826	0.070	1.778	0.015	0.381
ZDS-L-240	0.240	6.096	0.150	3.810	0.020	0.508
ZDS-L-350	0.350	8.890	0.210	5.334	0.025	0.635
ZDS-L-480	0.480	12.192	0.315	8.001	0.032	0.813
ZDS-L-700	0.700	17.780	0.500	12.700	0.040	1.016
ZDS-L-1000	1.000	25.400	0.700	17.780	0.045	1.143

