

-- Thick Adhesive-Lined Polyolefin Tubing --

DTK (3X)

Thick-wall, low-temperature, adhesive-lined, flexible polyolefin heat shrink tubing; Shrink ratio 3:1

Applications

Manufactured by co-extrusion of polyolefin and hot-melt adhesive. The thick adhesive liner is designed to provide both insulation and sealing to protected articles. This tubing is typically used to protect bundle wires and metal tubes against water and moisture.

Features

- Thick adhesive liner
- Low shrink temperature
- Flexible
- Shrink ratio 3:1
- Initial shrinkage temperature: $\geq 70^{\circ}\text{C}$
- Fully shrink temperature: $\geq 110^{\circ}\text{C}$
- Continuous operating temperature: -45°C to 125°C

Standard Sizes and Dimensions

Ordering Size in.	(mm)	Expanded I.D. (Minimum) mm	Recovered I.D. (Maximum) mm	Recovered Total Wall Thickness (Normal) mm	Recovered Adhesive Thickness mm
1/8	(3.2)	3.2	1.0	0.95±0.15	0.45±0.1
3/16	(4.8)	4.8	1.6	1.20±0.15	0.60±0.1
1/4	(6.4)	6.4	2.2	1.35±0.15	0.70±0.1
5/16	(7.9)	7.9	2.7	1.50±0.15	0.75±0.1
3/8	(9.5)	9.5	3.2	1.65±0.15	0.85±0.1
1/2	(12.7)	12.7	4.2	1.80±0.20	0.90±0.1
5/8	(15)	15.0	5.2	1.80±0.20	0.90±0.1
3/4	(19.1)	19.1	6.3	2.00±0.20	1.00±0.1
1	(25.4)	25.4	8.5	2.10±0.20	1.05±0.1
5/4	(30)	30.0	10.2	2.20±0.20	1.05±0.1
1-1/2	(38.1)	38.1	13.5	2.40±0.20	1.15±0.1



Typical Properties

Property	Test Method	Standard	Typical Performance
Tensile Strength (MPa)	ASTM D 2671	≥ 10.4	11
Ultimate Elongation (%)	ASTM D 2671	≥ 300	450
Tensile Strength after Heat Aging (MPa)	UL224 158°C x168h	≥ 7.3	8.5
Ultimate Elongation after Heat Aging (%)	UL224 158°C x168h	≥ 200	350
Dielectric Strength (kV/mm)	IEC243	≥ 15	17.5
Volume Resistivity (ohm-cm)	ASTM D 876	$\geq 10^{14}$	2.5×10^{14}

Specification/Approvals

UL	RoHS
UL224	✓

Hot Melt Adhesive Property

Property	Test Method	Standard
Water Absorption	ASTM D570	$\leq 0.5\%$
Softening Point ($^{\circ}\text{C}$)	ASTM E28	105±5
Peel Strength (PE)	ASTM D 1000	120N/25mm
Peel Strength (AL)	ASTM D 1000	80N/25mm

Elenets®

Heat Shrink Tubing and Devices

Product Catalog

Single-Wall Polyolefin Tubing

Universal Heat Shrink Tubing

- ES (2X)
Flame-retardant, universal heat shrink tubing with excellent physical and mechanical properties.
- ES (3X)
Flame-retardant, universal heat shrink tubing with excellent physical and mechanical properties.
- TS (2X)
Ultra thin wall, very flexible, flame-retardant heat shrink tubing.
- SW-105 (2X)
105°C low-temperature, non self-extinguishing, flexible heat shrink tubing.
- SW-150 (2X)
150°C flame-retardant, flexible heat shrink tubing.

Military Spec Heat Shrink Tubing

- SF-135 (2X)
Flame-retardant, flexible, multi-purpose, Military Spec heat shrink tubing.
- SF-135 (3X)
Flame-retardant, flexible, multi-purpose, Military Spec heat shrink tubing.

Dual Wall (Adhesive-Lined) Tubing

Flexible Adhesive-Lined Polyolefin Tubing

- DE (2X)
Flexible, adhesive-lined, polyolefin heat shrink tubing.
- DE (3X)
Flexible, adhesive-lined, polyolefin heat shrink tubing.

DE (4X)
Flexible, adhesive-lined, polyolefin heat shrink tubing.

Military Spec Adhesive-Lined Heat Shrink Tubing

DF-135 (3X)
Highly flame-retardant, flexible, adhesive-lined, Military Spec polyolefin heat shrink tubing.

DF-135 (4X)
Highly flame-retardant, flexible, adhesive-lined, Military Spec polyolefin heat shrink tubing.

Heat Shrink Tubing For Automotive Wiring Harnesses

DW-R (4X)
Semi-rigid, high shrink ratio, adhesive-lined heat shrink tubing for automotive wiring harnesses.

DW-RF (4X)
Highly flame-retardant, semi-rigid, adhesive-lined heat shrink tubing for automotive wiring harnesses.

DW-L (4X)
Low-temperature, adhesive-lined heat shrink tubing for automotive wiring harnesses.

Heat Shrink Tubing For Automotive Oil-Pipe Protection

DW-O
Adhesive-lined, heat shrink tubing for automotive oil-pipe protection.

Thick Adhesive-Lined Polyolefin Tubing

DTK (3X)
Thick-wall, low-temperature adhesive-lined, flexible, polyolefin heat shrink tubing.

Heat Shrink End Caps And Repair Sleeve

HSDW-CAPS (4X)
Adhesive-lined, heat shrinkable insulating caps.

HSDW-CAPSR (4X)
Semi-rigid, adhesive-lined, heat shrinkable insulating caps.

HSDW-CT (4X)
Semi-rigid adhesive-lined heat shrink insulation connectors.

HSDW-TAPE (1.4X)
Adhesive-lined, cross-linked polyolefin heat shrink tape.

Medium and Heavy-Duty Tubing

Medium-Duty Tubing

MEE
Flame-retardant, medium wall, adhesive-lined heat shrink tubing.

MEE-R
Semi-rigid, high resistance, medium wall, adhesive-lined heat shrink tubing.

Heavy-Duty Tubing

HEE
Flame-retardant, heavy wall, adhesive-lined heat shrink tubing.

HEE-R
Semi-rigid, high resistance, heavy wall, adhesive-lined heat shrink tubing.

Heat Shrinkable Busbar Insulation Tubing

FBTM
Flexible medium wall 1~25kV busbar insulation tubing.

FBTH
Flexible 35kV busbar insulation tubing.

Special Purpose Tubing

TFE
PTFE Teflon tubing.

TFE200 (1.7X)
Heat shrink Teflon tubing.

W150 (2X)
Diesel resistant, flexible, elastomeric heat shrink tubing.

GT200 (2X)
Thin wall, fluoroelastomer heat shrink tubing.

Important Notice

All statements, technical information, and recommendations related to Elenets' products are believed to be reliable, but the accuracy or completeness is not guaranteed. We highly recommend that you evaluate and determine if it is suitable for your intended application before using this product. Elenets assume no risk and liability associated with the use of this material. Any statements related to the product which are not contained in the current Elenets printed publications, online literature, or any contrary statements referenced on your purchase order shall have no force or effect unless expressly agreed upon, in writing, by an authorized officer of Elenets.

Warranty; Limited Remedy; Limited Liability

Elenets' product warranty is stated in its Product Literature available upon request. Elenets makes no other warranties including, but not limited to, any implied warranty of merchantability or fitness for a particular purpose. In no instance will Elenets be liable for any eventual, indirect or consequential damage or damages arising from the sale, resale, transfer, use or misuse of the product. Elenets' specifications are subject to change without notice, including changes in materials and processing that do not affect compliance of the products specification. If this product is defective within the warranty period stated above, your exclusive remedy shall be, at Elenets' option, to replace or repair the product or refund the purchase price of the Elenets' product.

Elenets General Electronics Corp.

8605 Santa Monica Blvd

Suite 25826

Los Angeles, CA 90069-4109

Email: sales@elenets.com

www.elenets.com

Copyright ©2018 Elenets General Electronics Corp. All right reserved.
--