Optinova Dual Wall Heat Shrink Tubing

Solutions for Industrial Applications.

Dual Wall Heat Shrink tubing consists of an outer PTFE heat shrink tube and an inner FEP tube delivered as one part. When the PTFE tubing shrinks, the inner FEP tube melts creating a tight protection around the components.

Optinova's Dual Wall Heat Shrink solutions are suited to encapsulate sensitive parts in an air and liquid tight environment.

Key advantages

- Working temperature: Up to 205°C / 401°F (higher temperatures require a different inner tube).
- UV94 Class 0: Nonflammable
- Excellent Chemical Resistance: Highly resistant to a broad range of chemicals, making it suitable for demanding applications.
- Resistance to elements: Virtually unaffected by oxygen, ozone and UV light
- Low friction: Low coefficient of friction
- Compliance: FDA and/or USP class VI approved raw materials
- Sterilizable: Compatible with ETO and steam sterilization
- Electricial insulation: Offers excellent dielectric properties
- Customizable appearance: Available in a range of colors
- ShrinkingTemparture: from 330°C / 626°F

Applications

- Insulation and jacketing
- Wire connecting and splicing
- Encapsulation of electronic components
- Protection of probes and antennas
- Corrosion protection for metal parts

Technical specifications

	PTFE	FEP	
Shrink temperature	Ca 330 C (626 F)	Ca 100 C (212 F)	
Shrink Ratio	2:1 and 4:1	1:6:1 and 1:3:1	
Length change	+/-12%	+/-12%	
Working temperature	-260 C to 260 C 436 F to 500 F	-100 C to 205 C -148 F to 401 F	
Chemical resistance	Excellent	Very good	
Flammability	UL 94 V0	UL 94 V0	
Shelf life	Infinite	Infinite	
Water absorption	>0,01%	>0,01%	
Hardness	D60	D55	
UV resistance	Unaffected	Unaffected	
Ozone resistance	Unaffected	Unaffected	
Sterilization	EtO, Steam	EtO, Steam	
Food-grade materials	Available	Available	

For more technical information, please contact us at our sales offices or visit our website: **optinova.com/contacts**

Industrial-grade certifications











We empower customers through highly reliable tubing solutions.



Specifications

	supplied ID	supplied ID		shrunk ID		wall full shrink	
Туре	inch	mm	inch	mm	inch	mm	
365	0,036	0,914	-	-	-	-	
60S	0,06	1,524	-	-	-	-	
1305	0,130	3,302	-	-	0,031	0,800	
160S	0,160	4,064	-	-	0,031	0,800	
190S	0,190	4,826	0,062	1,575	0,035	0,889	
250S	0,250	6,350	0,125	3,175	0,035	0,889	
350S	0,350	8,890	0,190	4,826	0,035	0,889	
450S	0,450	11,430	0,312	7,925	0,055	1,397	
700S	0,700	17,780	0,440	11,176	0,055	1,397	
950S	0,950	24,130	0,630	16,002	0,065	1,651	
65 L	0,065	1,651	-	-	-	-	
115 L	0,115	2,921	0,045	1,143	0,015	0,381	
130 L	0,130	3,302	0,060	1,524	0,015	0,381	
180 L	0,180	4,572	0,065	1,651	0,015	0,381	
190 L	0,190	4,826	0,070	1,778	0,015	0,381	
350 L	0,350	8,890	0,210	5,334	0,025	0,635	
480L	0,480	12,192	0,315	8,001	0,032	0,813	
700L	0,700	17,780	0,500	12,700	0,040	1,016	
1000L	1,000	25,400	0,700	17,780	0,045	1,413	

We recommend using heat gun or oven to shrink the tube. You must maintain good ventilation when heating fluoropolymers. The fumes are invisible, odorless and at high temperatures can be unpleasant or cause nausea and flu-like symptoms.

Temperature resistivity on the part to be encapsulated needs to be checked prior shrinkage of the tubing to avoid damaging the part.

Standard supply is made on spools (lay flat) or in 1,22 meter cut pieces.

Custom dimensions and lengths can be made upon request. PTFE, FEP and ETFE heat shrink tubing is available as well.

About Us

Founded in 1971, Optinova is a world-leading extrusion partner for advanced medical and industrial tubing. With sales offices around the world and four extrusion plants in Finland, Thailand, and the US, we are serving partners from 50+ countries across industries.

Contact Us

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