

# Optinova FEP Heat Shrink Tubing

Solutions for Industrial Applications.



Optinova heat shrink tubing solutions serve as protective jacketing for extreme environments, resisting heat, corrosion, shock, and moisture.

FEP heat shrink tubes come in 1.3:1 or 1.6:1 shrink ratios, with standard supply on spools (lay flat) or custom sizes designed to shrink onto lamps per your specifications.



## Key advantages

- **High Temperature Resistance:** Operates effectively up to 205°C / 401°F.
- **Nonflammable:** Certified UV94 Class 0.
- **Chemical Resistance:** Excellent resistance to a wide range of chemicals.
- **UV and Light Stability:** Virtually unaffected by oxygen, ozone, and UV-C light exposure.
- **Compliance with Standards:** Meets IEC/BS EN 61549 standards for safety and performance.
- **Heat and UV Resistance:** Highly resistant to elevated temperatures and UV radiation.
- **Sterilization:** Suitable for ETO and Steam.
- **Shrink Temperature:** Starts shrinking at 100°C / 212°F, allowing for easy application.

## Applications

- Insulation and jacketing
- Wire connecting and splicing
- Food and pharmaceutical packaging
- Encapsulation of electronic components
- Protection of probes and antennas
- Roll covers for food, textile and paper industries
- Corrosion protection for metal parts
- Shutter protection for lamps
- Insect lamps
- UV-C lamps for disinfection of liquids

## Technical specifications

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

For more technical information, please contact us at our sales offices or visit our website: [optinova.com/contacts](https://www.optinova.com/contacts)

## Industrial-grade certifications



Optinova heat shrink tubing solutions are **produced from FEP grades of premium quality only.**



# We empower customers through highly reliable tubing solutions.



FEP Heat Shrink Tubing 1.3:1 AWG Sizes										
AWG	Exp. ID	Rec. ID	Wall thickness			Exp. ID	Rec. ID	Wall thickness		
Size	(min)	(max)	Min.	Nom.	Max.	(min)	(max)	Min.	Nom.	Max.
	inch					mm				
24	0.031	0.027	0.006	0.008	0.010	0.79	0.69	0.15	0.20	0.25
22	0.036	0.032	0.006	0.008	0.010	0.91	0.81	0.15	0.20	0.25
20	0.045	0.039	0.006	0.008	0.010	1.14	0.99	0.15	0.20	0.25
18	0.060	0.049	0.006	0.008	0.010	1.52	1.25	0.15	0.20	0.25
16	0.075	0.061	0.007	0.009	0.011	1.91	1.55	0.18	0.23	0.28
14	0.092	0.072	0.007	0.009	0.011	2.34	1.83	0.18	0.23	0.28
12	0.115	0.089	0.007	0.009	0.011	2.92	2.26	0.18	0.23	0.28
10	0.141	0.114	0.007	0.010	0.013	3.58	2.90	0.18	0.25	0.33
9	0.158	0.124	0.007	0.010	0.013	4.01	3.15	0.18	0.25	0.33
8	0.180	0.143	0.007	0.010	0.013	4.57	3.63	0.18	0.25	0.33
7	0.197	0.158	0.007	0.011	0.015	5.00	4.01	0.18	0.28	0.38
6	0.225	0.180	0.007	0.011	0.015	5.72	4.57	0.18	0.28	0.38
5	0.248	0.198	0.007	0.011	0.015	6.30	5.03	0.18	0.28	0.38
4	0.290	0.226	0.007	0.011	0.015	7.37	5.74	0.18	0.28	0.38
3	0.310	0.249	0.007	0.011	0.015	7.87	6.32	0.18	0.28	0.38
2	0.365	0.280	0.008	0.012	0.016	9.27	7.11	0.20	0.30	0.41
1	0.400	0.311	0.008	0.012	0.016	10.16	7.90	0.20	0.30	0.41
0	0.400	0.349	0.008	0.012	0.016	11.18	8.86	0.20	0.30	0.41

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.

Custom dimensions, colours and lengths can be made upon request. Minimum volumes apply.

DUAL heat shrink tubing PTFE/FEP and ETFE heat shrink tubing is available upon request.

## 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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