

OPTINOVAS

CUSTOMIZED FEP HEAT SHRINK SOLUTIONS

FEP heat shrink tubing is used in various medical applications. FEP's beneficial properties, such as lubricity, clarity, chemical resistance as well as favorable anti-stick surface makes it an excellent choice for reflow processing of catheter shafts, coating surgical instruments, encapsulation, dielectric, insulation etc.

Optinova offer two versions of heat shrink tubing, 1.6: I FEP HS & FEP QuickShrink 2.0. Both versions are available in customized sizes and from our stock of specially selected dimensions.

I.6: I FEP Heat Shrink Tubing

The I.6:I FEP HS from Optinova is a cost effective heat shrink solution, utilizing Optinova's trademark of a high quality, consistent extrusion for medical devices. Recommended shrink temperatures from 200° C (390° F).

Features & benefits

- Outstanding chemical resistance
- · Low gas permeability
- Excellent transmission of UV rays
- Excellent electrical insulation values
- Sterilization compatibility: Gamma, ETO, e-beam and autoclave

ABOUT OPTINOVA

The Optinova Group is one of the leading global suppliers of advanced tubing solutions for the global medical device industry, as well as of demanding fluoropolymer tubing for industrial applications. Optinova (incl. ScanTube since 2015) is a Finnish company group with manufacturing bases on the Åland Islands in Finland, Minnesota, USA, and Thailand. The Optinova family welcomes you to get in contact when you are looking for experienced extrusion partner for advanced tubing solutions.

Cardio & Vascular extrusion solutions portfolio

Our Cardio & Vascular market segment offers a complete range of extrusion services for your delivery device requirements.

- PTFE cores
- Etched OD PTFE liner
- FEP HS & PTFE HS
- Single- & multilumen extrusions
- · Balloon tubing
- Balloon & stent protectors
- Braided shafts
- · CRM lead components



FEP QuickShrink™ 2.0 Heat Shrink Tubing

Unique features of the FEP QuickShrink™ 2.0 are the fast shrinking process that gives shorter production cycle and lower production costs. Also, FEP QuickShrink™ 2.0 has a low and adjustable shrink temperature between 80°C–170°C (176°F–338°F). The low shrink temperature makes FEP QuickShrink™ 2.0 an ideal solution for processing of materials with low melt temperature as overheating can be avoided.

Features & benefits

- · Rapid shrinking process
- Cost-saving product design
- · Lower shrinking temperature
- · Outstanding chemical resistance
- · Low gas permeability
- Excellent transmission of UV rays
- · Excellent electrical insulation values
- Sterilization compatibility: Gamma, ETO, e-beam and autoclave

Optinova has built its recognition in the medical tubing field around high quality and batch to batch consistency.

FEP HS CAPABILITY SUMMARY		
	I.6:I FEP HS	FEP QuickShrink 2.0
ID	0,7–5,0 mm	0,7–5,0 mm
	0.028"-0.200"	0.028"-0.200"
Wall	0,15-0,30 mm	0,15-0,30 mm
	0.006"-0.012"	0.006"-0.012"
Shrink temperature	From 200 °C	From 80 °C
	From 390 °F	From I76 °F
Shrink ratio	up to 1.6:1	up to 1.6:1
Longitudinal change	0-12%	0-12%
Melt temp	257–275 °C	257–275 °C
	495–525 °F	495–525 °F
Max service temp	200 °C	200 °C
	390 °F	390 °F
Transparency	Very good	Very good
Chemical resistance	Very good	Very good
Sterilization	EtO, Steam	EtO, Steam
Configuration	Transparent	Transparent

Optinova is certified according to ISO 9001:2000 and ISO 13485:2003 and operates under cGMP guidelines. Our production is in clean room environment classified according to ISO 14644-I, class 6–8. The tubing is produced using virgin FEP polymer resins, i.e. USP class VI. All deliveries include Test Report and Certificate of Conformance.

CONTACT

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