

FEP Heat Shrink Tubing

Overview

FEP is a type of fluorinated ethylene propylene heat shrink tubing, which can be heated to cover complex and irregular shapes and offers mechanical protection, electrical insulation and aid for welding. FEP offers excellent consistency, high dielectric strength and is chemically inert. FEP is the industry gold standard for reflowing catheter shafts and bonding joints.



Chemical Resistance



Bio Compatible



Dielectric Strength

Key Features

- Shrink ratio up to 1.8:1
- Chemical resistance
- High transparency
- Good dielectric properties
- Good surface smoothness

Applications

- Enables catheter lamination
- Assists tip forming
- Offers protective jacket

Standard Product

Product Model	Expanded ID	Recovered ID	Shrink Ratio	Recovered Wall
AccShrink FEP-24F-0.50	≥9.20mm (0.362")	≤5.80mm (0.229")	1.6 : 1	0.50mm (0.020") ± 0.05mm (0.002")
AccShrink FEP-21F-0.30	≥8.50mm (0.335")	≤5.50mm (0.217")	1.6 : 1	0.50mm (0.020") ± 0.05mm (0.002")
AccShrink FEP-18F-0.30	≥8.00mm (0.315")	≤5.20mm (0.205")	1.6 : 1	0.50mm (0.020") ± 0.05mm (0.002")
AccShrink FEP-15F-0.23	≥6.73mm (0.265")	≤4.22mm (0.166")	1.6 : 1	0.50mm (0.020") ± 0.05mm (0.002")
AccShrink FEP-12F-0.38	≥5.10mm (0.200")	≤3.40mm (0.134")	1.6 : 1	0.50mm (0.020") ± 0.05mm (0.002")
AccShrink FEP-10F-0.30	≥4.50mm (0.177")	≤2.80mm (0.111")	1.6 : 1	0.50mm (0.020") ± 0.05mm (0.002")
AccShrink FEP-8F-0.30	≥3.60mm (0.142")	≤2.20mm (0.087")	1.6 : 1	0.50mm (0.020") ± 0.05mm (0.002")
AccShrink FEP-6F-0.30	≥3.00mm (0.118")	≤1.80mm (0.071")	1.6 : 1	0.50mm (0.020") ± 0.05mm (0.002")
AccShrink FEP-5F-0.33	≥2.50mm (0.098")	≤1.50mm (0.059")	1.6 : 1	0.50mm (0.020") ± 0.05mm (0.002")
AccShrink FEP-4F-0.30	≥2.00mm (0.079")	≤1.30mm (0.051")	1.6 : 1	0.50mm (0.020") ± 0.05mm (0.002")
AccShrink FEP-3F-0.28	≥1.50mm (0.059")	≤0.95mm (0.037")	1.6 : 1	0.50mm (0.020") ± 0.05mm (0.002")
AccShrink FEP-2.5F-0.30	≥1.35mm (0.053")	≤0.80mm (0.031")	1.6 : 1	0.50mm (0.020") ± 0.05mm (0.002")
AccShrink FEP-2F-0.28	≥1.05mm (0.041")	≤0.60mm (0.024")	1.6 : 1	0.50mm (0.020") ± 0.05mm (0.002")

Technical Data

	Unit	Typical Value
Physical Properties		
Transparency		Very good
Specific Gravity		2.12~2.15
Thermal Properties		
Shrinking Temperature	°C (°F)	130~280 (265~535)
Continuous Service Temperature	°C (°F)	≤200 (390)
Melting Temperature	°C (°F)	250~280 (480~535)
Mechanical Properties		
Hardness	Shore D (Shore A)	56D (71A)
Tensile Strength at Yield	MPa (kpsi)	8.5~14.0 (1.2~2.1)
Elongation at Yield	%	3.0~6.5
Chemical Properties		
Chemical Resistance		Excellent to most chemicals
Sterilization Methods		Steam, Ethylene Oxide (EtO)
Biocompatibility Properties		
Cytotoxicity Test		Pass ISO 10993-5: 2009
Hemolytic Properties Test		Pass ISO 10993-4: 2017
Acute Systemic Toxicity Test		Meets USP<88> Class VI
Intracutaneous Reactivity Test		Meets USP<88> Class VI
Implantation Test		Meets USP<88> Class VI
Heavy Metal Test		<2ppm,
- Lead/Pb		according to RoHS
- Cadmium/Cd		2.0, (EU)
- Mercury/Hg		2015/863
- Chromium/Cr (VI)		

FEP heat shrink tubing storage conditions: Normal room temperature (18°C to 30°C) and out of direct sunlight.

Order Information

Our experts can guide you in material selection, tubing specifications, and custom-cut lengths to fit your specific heat shrink tubing requirements.

E-MAIL US TO ORDER SAMPLES TODAY.

customer@accupathmed.com

