



# FEP HEAT SHRINK TUBING

## APPLICATIONS

- Process aid for reflowing catheter shafts
- Process aid for joint bonding
- Abrasion protection / strain relief

## PROFILE

- Shrink ratio  $\leq$  1.6:1
- Full recovery at 210°C (410°F) minimum
- Tight longitudinal change control as low as 0 to 4%
- Manufactured to ISO 10993 standards
- Meets the requirements of the ISO 10993-5 / AAMI ST72 / ISO 11737
- Custom sizing, finishing options available
- Translucent for high optical clarity

## ABOUT

- FEP is a fluorinated ethylene propylene (FEP) heat shrink tubing. FEP offers excellent consistency, high dielectric strength and is chemically inert. FEP is lubricious and semi-rigid with shrink ratios up to 2:1\*. FEP is the industry gold standard for reflowing catheter shafts and bonding joints
- For our FEP, we can control longitudinal growth as low as 0 to 4% ensuring consistency on lot-to-lot, reducing waste and cost

\*Upper limit on select applications. Optimal shrink ratio is 1.6:1

# HEAT SHRINK TUBING — FEP

**TABLE 1: DIMENSIONS**

| Standard Sizes | As Supplied                    |      | Recovered                      |       |                               |      |         |      |         |      |
|----------------|--------------------------------|------|--------------------------------|-------|-------------------------------|------|---------|------|---------|------|
|                | Inside Diameter (D)<br>Minimum |      | Inside Diameter (d)<br>Maximum |       | Wall Thickness (in., mm.) (W) |      |         |      |         |      |
|                | in.                            | mm.  | in.                            | mm.   | Minimum                       |      | Maximum |      | Nominal |      |
| in.            |                                |      |                                |       | mm.                           | in.  | mm.     | in.  | mm.     |      |
| 1/32           | 0.031                          | 0.79 | 0.02                           | 0.5   | 0.007                         | 0.18 | 0.009   | 0.23 | 0.008   | 0.2  |
| 3/64           | 0.047                          | 1.19 | 0.03                           | 0.762 | 0.007                         | 0.18 | 0.009   | 0.23 | 0.008   | 0.2  |
| 1/16           | 0.063                          | 1.59 | 0.039                          | 0.99  | 0.0085                        | 0.22 | 0.0115  | 0.29 | 0.01    | 0.25 |
| 3/32           | 0.094                          | 2.38 | 0.056                          | 1.42  | 0.0085                        | 0.22 | 0.0115  | 0.29 | 0.01    | 0.25 |
| 1/8            | 0.125                          | 3.18 | 0.075                          | 1.91  | 0.0085                        | 0.22 | 0.0115  | 0.29 | 0.01    | 0.25 |
| 3/16           | 0.188                          | 4.76 | 0.115                          | 2.92  | 0.0085                        | 0.22 | 0.0115  | 0.29 | 0.01    | 0.25 |
| 1/4            | 0.25                           | 6.35 | 0.15                           | 3.81  | 0.0105                        | 0.27 | 0.0135  | 0.34 | 0.012   | 0.3  |
| 3/8            | 0.375                          | 9.53 | 0.225                          | 5.72  | 0.0135                        | 0.34 | 0.0165  | 0.24 | 0.015   | 0.38 |
| 1/2            | 0.5                            | 12.7 | 0.313                          | 7.95  | 0.0135                        | 0.47 | 0.0165  | 0.55 | 0.015   | 0.51 |

\*Denotes lot acceptance test

Note 1: Sample preparation and extraction is per USP XXII. Metals analysis may be colorimetric as described in USP XXII or by equivalent quantitative analytical method.

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