



XTRA FLEX™ HS-914

Ultra-flexible, crystal clear, low shrink temperature, non-phthalate Polyvinylchloride is ideal for tube joining, transitioning and providing transparent protection

Medical-Grade USP Class VI heat shrink tubing that sets the standard for high-performance, safety and reliability, meeting the most stringent biocompatible criteria

FEATURES

Shrink Ratio: 2:1

High-Performance, Non-Phthalate, Polyvinylchloride

- Non-DEHP – Non toxic
- Tubing is supplied pressurized for dimensional stability

100% factory double tested for superior insulation integrity, reliability and safety

Superior flexibility

- Remains extremely flexible, even after shrinking
- Non-kinking and extremely supple

Outstanding crystal-clear transparency

- Exceptional clarity permits optimum visual inspection of the underlying components
- Provides see-through protection over labels, warnings, directions, etc.
- Will not turn yellow or cloudy

Excellent for rapid, low shrink temperature requirements, preventing damage to delicate adjacent components

Resistant to many chemicals

Sterilization Options – Can be repeatedly sterilized by:

- E-Beam and Gamma Radiation
- Autoclave
- ETO

Pressurized tubing is alcohol wiped, packaged in coils or on plastic spools, and double plastic bagged in a clean room environment

Complete lot traceability

SPECIFICATIONS

Meets the most stringent biocompatible specifications:

- USP Class VI Compliant
- ISO-10993-5 Certified
- USFDA Compliant
- RoHS Compliant

USP Class VI and ISO 10993-5 Cytotoxicity documentation provided as post process certification when requested

Insultab is ISO-9001:2008 Certified

Insultab's tubing products are made in the USA



THE XTRA-FLEX HS-914 DIFFERENCE

- High performance, non-phthalate, Polyvinylchloride
- Outstanding flexibility
- Exceptional clarity
- Low shrink temperature

MEDICAL-GRADE HEAT SHRINKABLE TUBING

TECHNICAL DATA

Shrink Ratio: 2:1

NOTE: HS-914 can be customized to your specifications for expanded and recovered diameters, wall thicknesses and shrink ratios

Minimum Recommended Shrink Temperature: 93°C (200°F)

Operating Temperature Range: -20°C to 60°C (-4°F to 140°F)

Longitudinal Shrinkage: 20% maximum at full recovery

Physical / Electrical Properties:

Specific Gravity: 1.10

Durometer: Shore D 33

Tensile Strength: 2900 psi

Dielectric Strength: 650 vpm

Ultimate Elongation: 400 psi

Brittle Point: -47°C

Chemical Resistance:

Resistant to many chemicals including isopropyl alcohol and saline solution

Storage:

Heat sensitive — Store at 70°F or below

When not under pressure, use within 30 days

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Autoclave Cycle Test:

20 cycles @ 134°C 30 psig for 15 min. with fast dry cycle, followed by test for:

PROPERTY	TEST METHOD	TYPICAL VALUE
Volume Resistivity @ 500 volts	ASTM D 257	No change from original
Dielectric Strength in air @ 500 kv/min rise	ASTM D 149	No change from original
Dielectric Constant @ 1 MHz	ASTM D 150	No change from original
Dissipation Factor @ 1 MHz	ASTM D 150	No change from original

Notice to User: It is imperative that manufacturers and end-users understand that the electro-surgical instruments should be placed separately, without overlay, on autoclave trays. Potential damage caused by overlay in the autoclave will significantly reduce this and any other dielectric insulator's ability to pass the 20 cycles of autoclave required by the AAMI.

All statements and recommendations are based on technical data that INSULTAB believes to be true and reliable. It is the responsibility of the user to determine functionality and suitability. If you have any questions on the use or handling of this product, please contact us at 800-468-4822.

SIZES & COLORS

Standard Dimensions — HS-914 can be customized

SIZE	Expanded I.D. Minimum		Recovered I.D. Maximum		Recovered Wall Nominal		Standard Packaging (per Box) Product is Supplied in Coils or on Plastic Spools	
	in.	mm	in.	mm	in.	mm	FT. / COIL OR SPOOL	TOTAL FT. / BOX
3/32	.093	2.36	.046	1.17	.020	0.51	1,000'	2,000'
1/8	.125	3.18	.062	1.58	.020	0.51	1,000'	2,000'
3/16	.187	4.75	.093	2.36	.020	0.51	1,000'	2,000'
1/4	.250	6.35	.125	3.18	.025	0.64	500'	1,000'
3/8	.375	9.53	.187	4.75	.025	0.64	200'	600'
1/2	.500	12.70	.250	6.35	.025	0.64	200'	600'

Standard Color: Crystal Clear

Custom tinting and custom colors are also available

We will manufacture to your precise specifications:

- Custom expanded and recovered diameters
- Custom wall thicknesses
- Custom shrink ratios
- Custom tinting and color matching
- Custom printing with USP Class VI inks