

TUBING ASSORTMENT

3 types of USP Class VI high performance polymers with unique features for different applications, environments and sterilization options

- 135 pieces cut in 6" lengths
- 45 pieces of each type of tubing
- 6 diameter sizes: 3/32", 1/8", 3/16", 1/4", 3/8", 1/2"



FEATURES

The proven choice of leading medical device manufacturers world-wide for over twenty years, meeting the most stringent biocompatible and safety criteria

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

XTRA SHIELD™ HS-714

Proprietary radiation cross-linked, flexible Acrylated Olefin preferred by leading medical device manufacturers for insulating electro-surgical instruments and for biocompatible jacketing for temporary implantation devices

- Unique heat sealable and adhesion properties without adhesives
- High dielectric strength protects against insulation failure
- Exceptionally strong with greater cut-through, puncture and abrasion resistance
- Excellent resistance to a wide range of chemicals including: Hexachlorophene (pHisoHex), saline solution, povidone-iodine (Betadine), benzalkonium (Zephiran), alcohol
- Numerous sterilization options



XTRA THERM™ HS-814

High heat resistant, radiation cross-linked Polyvinylidene Fluoride best for electrical insulation, stiffening, strain relief and as a manufacturing aid in demanding environments

- Semi-rigid, exceptionally tough with a thin .005"-.006" (0.127 mm-0.152 mm) expanded wall
- Excellent resistance to a wide range of chemicals and fluids including isopropyl alcohol and saline solution



XTRA FLEX™ HS-914

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

- Superior flexibility even after shrinking, non-kinking and extremely supple
- Exceptional clarity permits optimum visual inspection of underlying components, labels, warnings, directions, etc.
- Rapidly shrinks at low temperature preventing damage to delicate, adjacent components



MEDICAL-GRADE HEAT SHRINKABLE TUBING

TECHNICAL DATA

Medical-grade heat shrink tubing that sets the standard for high performance, safety and reliability

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

XTRA(SHIELD™)
HS-714

XTRA(THERM™)
HS-814

XTRA(FLEX™)
HS-914

Material	Proprietary Radiation Cross-Linked Acrylated Olefin	Radiation Cross-Linked Polyvinylidene Fluoride	High Performance, Non Phthalate, Polyvinylchloride
Shrink Ratio	2:1 – Can be customized	2:1 – Can be customized	2:1 – Can be customized
Flexibility	Flexible	Semi-Rigid	Ultra-flexible
Minimum Recommended Shrink Temperature	121°C / 250°F	175°C / 347°F	93°C / 200°F
Operating Temperature Range	-55°C to 121°C / -67°F to 250°F	-55°C to 175°C / -67°F to 347°F	-20°C to 60°C / -4°F to 140°F
Longitudinal Shrinkage	+5/-5%	+/- 10%	20% maximum at full recovery
Specific Gravity	0.934	1.80	1.10
Durometer	Shore D 53	Shore D 63	Shore D 33
Tensile Strength	3200 / 3600 psi	5740 psi	2900 psi nominal
Dielectric Strength	1,800 / 2,000 vpm	1,300 vpm	650 vpm
Elongation	400 psi	440 psi	400 psi nominal
Sterilization Options	E-Beam and Gamma Radiation Autoclave ETO Steris Process-Paracetic Acid, Hydrogen Peroxide Gas, Glutaraldehyde	E-Beam and Gamma Radiation Autoclave ETO	E-Beam and Gamma Radiation Autoclave ETO
Standard Colors	Black, White, Blue, Clear	Black, White	Crystal Clear



All information presented is believed to be reliable and is offered only as a guide to product selection. As each application is unique, Insultab can make no warranties as to the suitability of any products for a particular use. Specifications are subject to change.

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.

Insultab is ISO-9001:2008 Certified and RoHS Compliant • Insultab's tubing products are made in Woburn, MA

