

# TUBING AND CLAMPS

## PENROSE DRAINAGE TUBING

### Features

- Tubing is extensively leached, washed, and surface-treated reducing protein levels below the limit of detection as measured by FDA-recognized test methods ASTM D5712 and ASTM D6499
- Seamless tubing- Free of striations lumen for clear passage of liquids and/or gases
- Performance Characteristics:
  - Elasticity – Memory is maintained even after repeated stretching
  - Translucency and uniformity of color – Provides an unobstructed observation of liquid flow line
  - Gripping power – Enables the tubing to grip tenaciously to connectors
- Sterilizable
- Made in USA

### The following tests have been performed on Latex Tubing:

- I. U.S.P. Biological Reactivity Tests, in VIVO, Class VI
  - Acute Systemic Toxicity
  - Intracutaneous Toxicity
  - Implantation Test
- II. U.S.P. Heavy Metals, Trace Metals

### Sterilization Options

- I. Autoclave
  - Steam under pressure
  - Check with autoclave equipment manufacturer for recommendations
  - Tubing manufacturer experience is to use 250°F for 20 minutes
  - The product will withstand repeated sterilizations
- II. Ethylene Oxide
  - Humidity, gas, and heat sterilization process
  - Parts must be accessible to gas
  - Oxyfume gas: 12% EtO + 88% Freon
- III. Gamma
  - Cobalt 60 Gamma radiation penetrates our products easily
  - Do not radiate tubing in an elongated state
  - 1.5 to 2.5 megarads have little to no effect on our rubber recipes on these tubing



	overall Width		overall Depth		UOM
	inch	mm	inch	mm	
3953 1	1	2.5	18	45.7	25/bx
3953 1/2	1/2	1.3	18	45.7	25/bx
3953 1/4	1/4	0.6	18	45.7	25/bx
3953 3/4	3/4	1.9	18	45.7	25/bx
3953 5/8	5/8	1.6	18	45.7	25/bx

**Materials:** Natural Rubber (Latex), Polyisoprene Rubber

**Compliance Specifications:** met requirements of A-A-52047 type 1, 3, 4, & 5 and A-A-53848

All materials used in tubing met FDA Title 21 CFR Section 177.2600

**Caution:** This product contains natural rubber latex, which may cause allergic reactions.



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