

# PRIMELINE INDUSTRIES

## Natural Rubber Latex Tubing Specification Sheet

### CHEMICAL RESISTANCE:

Strong Alkalies	Fair
Weak Alkalies	Good
Strong Acids	Poor
Weak Acids	Good
Petroleum	Poor

### PHYSICAL PROPERTIES:

Tensile Strength (psi) .....	3500 min.
Ultimate Elongation .....	750% min.
Hardness (Shore A) .....	35 ± 5
100% Modulus (psi) .....	125 max.
Specific Gravity .....	0.97 max.

**OZONE RESISTANCE:** Poor

**UV RESISTANCE:** Fair

### LOW TEMPERATURE FLEX:

Brittle	-67°F
Flexible	0°F

### RECOMMENDED STERILIZATION:

Steam Autoclave 30 minutes @15 psi  
Ethylene Oxide

### PROTEIN IN NATURAL RUBBER:

Less than 50 micrograms/gram. Fifty  
ug/g is detection limit of ASTM D5712-95.

**MAXIMUM RECOMMENDED OPERATING TEMPERATURE:** 212°F Intermittent - 158°F Continuous

Primeline's natural rubber latex tubing meets or exceeds the physical properties of Commercial Item Description A-A-50247C Type I Class 1, 2, and 3, Type III, Type IV, and Type V Class 1, 2, and 3 which replaced Federal Specification ZZ-T-831D.

Primeline's amber natural rubber latex tubing is in compliance with USP Biological Classification IV.

### Standard Tolerances:

**Inside diameter,** ± 0.015 inch on sizes up to 3/8 inch,  
proportionately greater on larger sizes.

**Wall thickness,** 1/32 inch and 3/64 inch ± 0.007 inch.  
1/16 inch and 5/64 inch ± 0.010 inch.  
3/32 inch and 1/8 inch ± 0.015  
Wall thickness greater than 1/8 inch are gauged on the  
outside diameter tolerance.

Primeline offers natural rubber latex tubing in sizes which range from 1/16 inch inside diameter (ID) x 1/32 inch wall to 1 inch ID x 1/4 inch wall.

Primeline Industries supports the world-wide goal to eliminate the use of ozone depleting chemicals. We do not knowingly use a Class I or Class II ozone depleting chemical as identified in the U.S. Clean Air Amendments of 1990 in the manufacturing process of our natural rubber latex tubing.

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