

EXCELON FOOD TUBING



Smooth, non-porous, flexible tubing



Excelon Food, Milk and Dairy Tubing is non-toxic, taste-free and odor-free, and meets all applicable regulatory standards for use in food, dairy and milk applications. Producers of food, milk and dairy products require the dependable performance of Excelon Tubing in countless filling, draining, transfer and processing applications.

Smooth, non-porous and flexible, Excelon Food Tubing promotes a sanitary fluid path by maintaining an interior free of trapped particles, and minimizing potential for bacterial growth. In addition, it is resistant to harsh alkaline cleaners and is not affected by most commonly used sanitizers.

PHYSICAL PROPERTIES

| Properties** | EXCEL FOOD |
|--------------------------|------------|
| Hardness, Shore A | 65 |
| Specific Gravity | 1.18 |
| Tensile Strength, psi | 2,030 |
| Elongation at Break, % | 390 |
| Max. Operating Temp., °F | 165 |
| Brittle Temperature, °F | -47 |

**Values listed are typical and are meant only as a guide to aid in design. Field testing should be performed to find the actual values for your application.

**Fittings and clamps are also available. Please consult customer service for assistance.

- Equivalent to Tygon® B-44-4X
- Chemical and bacterial resistant
- Non-toxic, odor-free, taste-free
- Crystal clear for visual inspection and flow monitoring
- Use with various clamps and barbed style fittings
- Lightweight and easy to handle
- Meets FDA, 3-A and NSF criteria for contact with food and beverage products
- For applications requiring higher working pressures, refer to Excelon braided pressure tube
- Batch consistency

Thermo
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EXCELON FOOD, MILK, DAIRY TUBING SIZING CHART

| ITEM NO. | SIZE NO. | ID (INCHES) | OD (INCHES) | WALL (INCHES) | LENGTH (FEET) | MINIMUM BEND RADIUS (INCHES) | MAX .WKG. PSI @ 73 °F |
|-----------|----------|-------------|-------------|---------------|---------------|------------------------------|-----------------------|
| 444901705 | S1A | 1/16 | 1/8 | 1/32 | 50 | 1/4 | 60 |
| 444901805 | S1B | 3/32 | 5/32 | 1/32 | 50 | 3/8 | 43 |
| 44490205 | S2 | 1/8 | 3/16 | 1/32 | 50 | 1/2 | 34 |
| 4440205 | 2 | 1/8 | 1/4 | 1/16 | 50 | 3/8 | 60 |
| 4440305 | 3 | 3/16 | 5/16 | 1/16 | 50 | 5/8 | 43 |
| 44490405 | S4 | 3/16 | 1/4 | 1/32 | 50 | 1 | 25 |
| 4440505 | 5 | 3/16 | 7/16 | 1/8 | 50 | 3/8 | 54 |
| 4440605 | 6 | 1/4 | 3/8 | 1/16 | 50 | 1 | 34 |
| 4440705 | 7 | 1/4 | 7/16 | 3/32 | 50 | 3/4 | 47 |
| 4440805 | 8 | 1/4 | 1/2 | 1/8 | 50 | 5/8 | 60 |
| 4440905 | 9 | 5/16 | 7/16 | 1/16 | 50 | 1 3/8 | 28 |
| 4441005 | 10 | 5/16 | 1/2 | 3/32 | 50 | 1 | 40 |
| 4441105 | 11 | 5/16 | 9/16 | 1/8 | 50 | 7/8 | 50 |
| 4441205 | 12 | 3/8 | 1/2 | 1/16 | 50 | 1 3/4 | 25 |
| 4441305 | 13 | 3/8 | 9/16 | 3/32 | 50 | 1 3/8 | 34 |
| 4441405 | 14 | 3/8 | 5/8 | 1/8 | 50 | 1 1/8 | 44 |
| 4441505 | 15 | 7/16 | 9/16 | 1/16 | 50 | 1 3/8 | 22 |
| 4441805 | 18 | 1/2 | 5/8 | 1/16 | 50 | 2 7/8 | 19 |
| 4441905 | 19 | 1/2 | 11/16 | 3/32 | 50 | 2 1/8 | 27 |
| 4442005 | 20 | 1/2 | 3/4 | 1/8 | 50 | 1 3/4 | 34 |
| 4442505 | 25 | 5/8 | 13/16 | 3/32 | 50 | 2 1/2 | 23 |
| 4442605 | 26 | 5/8 | 7/8 | 1/8 | 50 | 2 3/8 | 29 |
| 4442705 | 27 | 5/8 | 15/16 | 5/32 | 50 | 2 1/8 | 35 |
| 4443105 | 31 | 3/4 | 1 | 1/8 | 50 | 3 1/4 | 25 |
| 444931805 | S31B | 3/4 | 1 1/4 | 1/4 | 50 | 2 | 43 |
| 444931905 | S31C | 3/4 | 1 1/8 | 3/16 | 50 | 2 3/8 | 34 |
| 4443305 | 33 | 7/8 | 1 1/8 | 1/8 | 50 | 4 1/8 | 22 |
| 4443505 | 35 | 1 | 1 1/4 | 1/8 | 50 | 5 1/8 | 20 |
| 4443705 | 37 | 1 | 1 3/8 | 3/16 | 50 | 3 3/4 | 27 |
| 4443805 | 38 | 1 | 1 1/2 | 1/4 | 50 | 3 | 34 |
| 44493905 | S39 | 1 1/4 | 1 1/2 | 1/8 | 50 | 7 3/8 | 11 |
| 4444105 | 41 | 1 1/2 | 2 | 1/4 | 50 | 5 7/8 | 25 |
| 444941705 | S41E | 1 3/4 | 2 1/4 | 1/4 | 50 | 7 1/2 | 16 |
| 4444205 | 42 | 2 | 2 1/2 | 1/4 | 50 | 9 3/8 | 19 |

**Tolerances for dimensional sizes above in accordance with generally accepted industry standards.

**A number of environmental factors (including, but not limited to temperature, chemical attack, stress, vibration and expansion over fittings) will reduce the tubing's ability to withstand the pressures noted. Prior to specifying this tubing for use, it is the end user's responsibility to conduct the necessary tests to determine fitness for use in a specific application.



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