

バーシロン 2001 ローラーポンプ用耐薬チューブ 【参考資料】

概要

特徴: 可塑剤フリー、ケミカルトランスファー、食品飲料、ローラーポンプ用途 適合規格: FDA (食品)、REACH 材質: ポリオレフィン系 最高使用温度: 57℃ 詳細: 詳しくは英語版データシートをご参照ください(2ページ目以降参照)

日本での取り扱いサイズ

| 品番 | 内径 | | 外 | 径 | 片肉厚 | | ち勇巻 |
|-----------|-------|--------|-------|---------|------|--------|-----|
| 四笛 | mm | (inch) | mm | (inch) | mm | (inch) | m |
| AE300003 | 1.59 | (1/16) | 4.76 | (3/16) | 1.59 | (1/16) | 15 |
| AE300007 | 3.18 | (1/8) | 6.35 | (1/4) | 1.59 | (1/16) | 15 |
| AE300012 | 4.76 | (3/16) | 7.94 | (5/16) | 1.59 | (1/16) | 15 |
| AE300017 | 6.35 | (1/4) | 9.52 | (3/8) | 1.59 | (1/16) | 15 |
| AE300022 | 7.94 | (5/16) | 11.11 | (7/16) | 1.59 | (1/16) | 15 |
| AE300027 | 9.52 | (3/8) | 12.70 | (1/2) | 1.59 | (1/16) | 15 |
| AE300038 | 12.70 | (1/2) | 19.05 | (3/4) | 3.18 | (1/8) | 15 |
| AE300046 | 15.88 | (5/8) | 22.22 | (7/8) | 3.18 | (1/8) | 15 |
| AE300053 | 19.05 | (3/4) | 25.40 | (1) | 3.18 | (1/8) | 15 |
| AE300064 | 25.40 | (1) | 34.92 | (1-3/8) | 4.76 | (3/16) | 15 |
| AE3001502 | 2.0 | | 4.0 | | 1.0 | | 15 |
| AE3001517 | 3.0 | | 5.0 | | 1.0 | | 15 |
| AE3001518 | 4.0 | | 6.0 | | 1.0 | | 15 |
| AE3001519 | 5.0 | | 7.0 | | 1.0 | | 15 |
| AE3001520 | 6.0 | | 8.0 | | 1.0 | | 15 |
| AE3001505 | 7.0 | | 10.0 | | 1.5 | | 15 |
| AE3001506 | 8.0 | | 12.0 | | 2.0 | | 15 |
| AE3001521 | 10.0 | | 13.0 | | 1.5 | | 15 |

製品の仕様、梱包、その他ここに記載されている事項についてはお客様へ事前の断りなく変更することがあります。(2019年8月26日現在)

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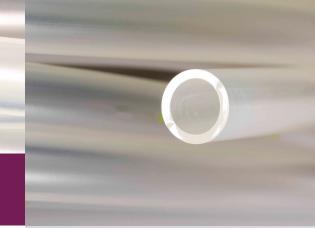
www.saint-gobain.co.jp/plastics



LS-FTS-002-3







Versilon[™] 2001

Plasticizer-free Chemical Resistant Pump Tubing

Superior Performance in a Broad Range of Applications

Versilon[™] 2001 tubing is uniquely engineered to provide flexibility, chemical resistance and extended pump life in a clear, plasticizer/oil-free tubing product. It is ideal for a broad range of demanding applications including peristaltic pump systems, soap and detergent dispensing, ink transfer, water purification lines, food and beverage, and chemical transfer.

Outperforms PVC in Chemical Resistance

Versilon[™] 2001 tubing is resistant to a wide range of fluids that typically destroy PVC products. Its chemical resistance allows it to be used in applications with aggressive chemicals such as polar solvents, benefiting the user with less downtime and tubing changes. Versilon[™] 2001 tubing yields a longer service life and does not degrade over time, unlike other flexible tubing products

(see "Relative Chemical Resistance Chart" on back).

Additional Product Features

Upon incineration, many tubing products release hazardous by-products such as hydrogen chloride gas, but when properly incinerated, Versilon⁻ 2001 tubing does not. Since it contains no plasticizers or oils, Versilon⁻ 2001 tubing will not yield any taste, which makes it an ideal choice for food and beverage applications with strict taste requirements and will help ensure accurate results from analytical instrument tests. Versilon⁻ 2001 tubing fully complies with FDA 21 CFR, 177.2600 criteria and REACH.

Features and Benefits

- Plasticizer and oil free does not contaminate fluids
- Superior flex life in peristaltic pumps
- Chemically resistant to a wide range of fluids
- Temperature resistant from -108°F to 135°F
- Clear for easy visual flow monitoring
- Meets FDA criteria for food contact
- REACH

Typical Applications

- Chemical transfer
- Peristaltic pumps
- Soap and detergent dispensing
- Ink transfer
- Water purification lines
- Food and beverage
- Analytical instruments
- Ideal for condensers, incubators, desiccators, gas and drain lines



Versilon[™] 2001

Versilon[™] 2001

| Part Number | ID | OD | Wall Thickness | Length | Min. Bend Radius | Max. Working Pressure | Vacuum Rating | |
|-------------|-------|-------|----------------|--------|---------------------|--------------------------|---------------|--|
| | (in.) | (in.) | (in.) | (ft.) | (in.) | 73°F (psi)* | inHg at 73°F | |
| AE300003 | 1/16 | 3/16 | 1/16 | 50 | 1/4 | 45 | 29.9 | |
| AE300007 | 1/8 | 1/4 | 1/16 | 50 | 1/2 | 30 | 29.9 | |
| AE300012 | 3/16 | 5/16 | 1/16 | 50 | 1/2 | 22 | 29.9 | |
| AE300017 | 1/4 | 3/8 | 1/16 | 50 | 1 | 17 | 29.9 | |
| AE300022 | 5/16 | 7/16 | 1/16 | 50 | 1-1/2 | 14 | 25 | |
| AE300027 | 3/8 | 1/2 | 1/16 | 50 | 2 | 12 | 15 | |
| AE300038 | 1/2 | 3/4 | 1/8 | 50 | 1-1/2 | 16 | 29.9 | |
| AE300046 | 5/8 | 7/8 | 1/8 | 50 | 2-1/2 | 13 | 25 | |
| AE300053 | 3/4 | 1 | 1/8 | 50 | 3 | 11 | 15 | |
| AE300064 | 1 | 1-3/8 | 3/16 | 50 | 3-3/4 | 13 | 17 | |

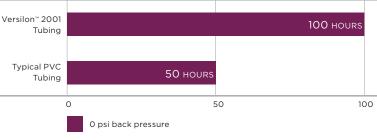
* Working pressures are calculated at a 1:5 ratio relative to burst pressure using ASTM D1599.

Typical Physical Properties

Peristaltic Pump Tubing Life

Value ASTM Property or Method Rating Durometer Hardness (Shore A), 15 sec D2240-03 69 Tensile Strength, psi (MPa) D412-98 800 (5.51) Ultimate Elongation, % D412-98 500 Tear Resistance, lb-f/in. (kN/m) D1004-03 140 (24.5) D792-00 Specific Gravity 0.88 D570-98 Water Absorption, % 24 hrs @ 23°C 0.04 Compression Set Constant Deflection, % D395-03 40 @ 158°F (70°C) for 22 hrs Method B -108 (-78) Brittleness Temp., °F (°C) D746-98 Maximum Recommended Operating Temp.°F (°C) 135 (57) Low Temp. Flexibility, °F (°C) D380-94 -100 (-73) D149-97 Dielectric Strength, V/mil (kV/mm) 530 (20.9) Tensile Modulus @ 100% Elongation, psi (MPa) D412-98 240(165)Tensile Set, % D412-98 110 Color Clear

The table below depicts hours until failure of 1/4" ID x 3/8" OD tubing. In each case, a 3-roller pump head operating at 600 rpm under room temperature 73°F (23°C). Tubing failure is measured in hours of use prior to rupture.



The performance of tubing in peristaltic pumping applications is affected by the conditions of use and equipment utilized, along with size and wall thickness of the tubing tested. The data above is presented for information only and should not be utilized for specification purposes.

Unless otherwise noted, all tests were conducted at room temperature 73°F (23°C). Values shown were determined on 0.075" thick extruded strip or 0.075" thick molded ASTM plaques or molded ASTM durometer buttons.

Relative Chemical Resistance Properties**

| Tubing | Acids | | | Bases | | | Calka | | l (a b a ia a a |
|----------------------------|-------|------|------|-------|------|------|-------|----------|------------------|
| | Conc. | Med. | Weak | Conc. | Med. | Weak | Salts | Alcohols | Ketones |
| Versilon [™] 2001 | F | Е | E | F | E | E | E | E | F |
| Fluoroelastomers | E | Е | E | U | F | F | Е | F | U |
| Urethane | U | U | U | U | F | F | F | U | U |
| PVC | F | E | E | E | E | E | Е | F | U |
| Thermoplastic Rubber | U | F | E | F | E | E | E | F | U |
| Neoprene | U | F | E | E | E | E | E | E | U |
| Nitrile Rubber | F | F | E | U | E | E | E | E | U |
| Silicone | U | U | U | U | F | F | F | F | U |
| EVA | U | F | E | F | E | E | E | E | U |

The values listed for working and burst pressures are derived from tests conducted under controlled laboratory conditions. Many factors will reduce the tubing's ability to withstand pressure, including temperature, chemical attack, stress, pulsation and the attachment to fittings. It is imperative that the user conduct tests simulating the conditions of the application prior to specifying the tubing for use.

E = Excellent F = Fair U = Unsatisfactory ** All tests conducted at room temperature.



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NOTE: The data and details given in this document are correct and up to date. This document is intended to provide information about the product and possible applications. This document is not the product specification and does not provide specific features, nor does it guarantee product performance in specific applications. Saint-Gobain cannot anticipate or control the conditions of the field and for this reason strongly recommends that practical tests are conducted to ensure that the product meets the requirements of a specific application.

Versilon™ is a trademark of Saint-Gobain Performance Plastics.