

## Saint-Gobain Tygon® S3 B-44-4X Phthalate-free Food, Milk, and Dairy tubing

Category : Polymer , Thermoplastic

### Material Notes:

Tygon S3 B-44-4X, from Saint-Gobain Performance Plastics, is now phthalate-free. Saint-Gobain is proud to be among the first companies to offer sustainable flexible tubing products. The bio-based Tygon S3 line combines the high performance standards customers demand with an eco-friendly tubing design. Tygon S3 Food, Milk and Dairy Tubing offers dependable performance in countless filling, draining, transfer and processing applications. Its smooth, non-porous bore inhibits particle entrapment, promoting a sanitary fluid path by minimizing potential for bacterial growth. It has outstanding resistance to harsh alkaline cleaners and is equally unaffected by commonly used sanitizers. Non-toxic, taste-free and odor-free, Tygon S3 Food, Milk and Dairy Tubing meets applicable regulatory standards for contact with food products. Complete clarity for positive visual inspection and flow control, it is available in up to a 6" inside diameter, making it a flexible replacement for rigid piping systems. Applications Aseptic filling Condiment dispensing Dairy processing Soft-serve dispensing Vitamin and flavor concentrate systems Features and Benefits Smooth, non-porous bore will not trap particulates or promote bacterial growth Compatible with foods containing a high oil content Resistant to harsh alkaline cleaners and sanitizers Excellent alternative to rigid piping systems Contains no BPA or phthalates Regulatory Information: Tygon S3 complies with FDA, NSF, 3-A, Japan Food Sanitation Law # 370/1959, REACH, 1935/2004/EC and 10/2011/EC for many foods and beverages. Tygon S3 tubing products do not contain chemicals listed in California's Prop 65. Unless otherwise noted, all tests were conducted at room temperature. Values shown were determined on 1.9 mm thick extruded strip or 1.9 mm thick molded ASTM placques or molded ASTM durometer buttons. Information provided by Saint Gobain Performance Products.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Saint-Gobain-Tygon-S3-B-44-4X-Phthalate-free-Food-Milk-and-Dairy-tubing.php](http://www.lookpolymers.com/polymer_Saint-Gobain-Tygon-S3-B-44-4X-Phthalate-free-Food-Milk-and-Dairy-tubing.php)

| Physical Properties | Metric   | English  | Comments  |
|---------------------|--|--|-----------|
| Specific Gravity    | 1.21 g/cc  | 1.21 g/cc  | ASTM D792 |
| Water Absorption    | 0.22 %<br>@Temperature 22.8<br>°C,<br>Time 86400 sec | 0.22 %<br>@Temperature 73.0<br>°F,<br>Time 24.0 hour | ASTM D570 |

| Mechanical Properties   | Metric                     | English                   | Comments   |
|-------------------------|----------------------------|---------------------------|------------|
| Hardness, Shore A       | 66<br>@Time 15.0 sec       | 66<br>@Time 0.00417 hour  | ASTM D2240 |
| Tensile Strength        | 15.2 MPa                   | 2200 psi                  | ASTM D412  |
| Tensile Strength, Yield | 9.508 MPa<br>@Strain 200 % | 1379 psi<br>@Strain 200 % |            |
| Elongation at Break     | 390 %                      | 390 %                     | ASTM D412  |
| Tear Strength           | 43.8 kN/m                  | 250 pli                   | ASTM D1004 |

| Mechanical Properties | Metric                                      | English                                 | Comments           |
|-----------------------|---|---|--------------------|
| Compression Set       | @Temperature 70.0<br>Â°C,<br>Time 79200 sec | @Temperature 158 Â°F,<br>Time 22.0 hour | ASTM D395 Method B |
| Tensile Set           | 57 %  | 57 %                                    | ASTM D412-98       |

| Thermal Properties               | Metric    | English   | Comments  |
|----------------------------------|-----------|-----------|-----------|
| Maximum Service Temperature, Air | 73.9 Â°C  | 165 Â°F   |           |
| Brittleness Temperature          | -35.6 Â°C | -32.0 Â°F | ASTM D746 |

| Optical Properties    | Metric | English | Comments                        |
|-----------------------|--------|---------|---------------------------------|
| Transmission, Visible | 90 %   | 90 %    | Clear, but value not quantified |

| Compliance Properties | Metric | English | Comments |
|-----------------------|--------|---------|----------|
| FDA                   | Yes    | Yes     |          |
| NSF                   | Yes    | Yes     |          |

| Descriptive Properties | Value | Comments |
|------------------------|-------|----------|
| Color                  | Clear |          |

## Contact Songhan Plastic Technology Co.,Ltd.

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