

# Transflow® III

## Smooth Bore Silicone Dairy Tubing

The Only Silicone Dairy  
Tubing that Deserves  
the Transflow® Name

### Features/Benefits

- Consistently smooth inner bore reduces potential for particle entrapment
- Withstands repeated cleaning cycles
- Excellent flexibility even at low temperatures
- Taste-and odor-free
- Highly translucent, permits visual inspection of milk flow
- Meets FDA, 3-A and NSF criteria
- Complete inventory of standard sizes

### Typical Applications

- Raw milk transport lines



Transflow® III tubing is the finest silicone raw milk dairy tubing produced specifically for the dairy industry.

### Engineered, Ultra-Smooth Inner Surface

The inner surface of Transflow® III Silicone Dairy Tubing has been designed to reduce the risk of particle build-up from butterfat, milkstones and milksoil. Preventing this build-up can significantly reduce the possibility of bacterial growth within milk transport lines, even during repeated use. The smooth bore of Transflow® III Silicone Dairy Tubing may help to prevent residue build-up, aiding in complete cleaning and sterilization.

### The Mark of Quality

Every foot of Transflow® III Silicone Dairy Tubing has been embedded with a trademark blue stripe within the tubing walls. The embedded blue stripe is your assurance of receiving genuine Transflow® tubing, the worlds' finest raw milk tubing produced specifically for the dairy industry.

### Unequaled Durability for Optimized Performance

Transflow® III Silicone Dairy Tubing is manufactured in a climate-controlled environment and is produced from 100% virgin silicone resin. There are absolutely no fillers added to weaken its outstanding physical properties.

Highly flexible Transflow® III Silicone Dairy Tubing is ozone- and UV light-resistant and can withstand continuous temperature extremes of -85°F (-65°C) to 320°F (160°C). Transflow® III Silicone Dairy Tubing can also be used with full vacuum (29.9 inches of mercury) at up to 320°F (160°C) without tubing wall collapse.

## Transflow® III Silicone Dairy Tubing Inventoried Sizes and Pressures

Saint-Gobain Part Number	I.D. (inches)	O.D. (inches)	Wall Thickness (inches)	Length (feet)	Max. Working Pressure at 73°F (23°C) (psi)*	Burst Pressure at 73°F (23°C) (psi)*	Minimum Bend Radius (inches)	Vacuum Rating In. of Mercury at 320°F (160°C)
ASH02043	9/16	15/16	3/16	100	28	112	1-1/4	29.9
ASH02048	5/8	1	3/16	100	25	100	1-5/8	29.9
ASH02055	3/4	1-1/8	3/16	100	18	72	2-1/4	29.9
ASH02061	7/8	1-3/8	1/4	100	22	88	2-1/2	29.9
ASH02065	1	1-1/2	1/4	100	20	80	2-3/4	29.9

\* Working pressures are calculated at a 1:4 ratio relative to burst pressure using ASTM D1599.

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 pressures 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.

## Transflow® III Silicone Dairy Tubing Typical Physical Properties

Property	ASTM Method	Value or Rating
Durometer Hardness Shore A, 15 Sec	D2240-02	71
Color	—	Translucent
Tensile Strength psi (MPa)	D412-98	1,200 (8.3)
Ultimate Elongation, %	D412-98	300
Tear Resistance lb-f/inch (kN/m)	D624-00 Die B	130 (22.8)
Specific Gravity	D792-00	1.21
Water Absorption, % 24 hrs. @ 23°C	D570-98	0.12
Compression Set Constant Deflection, % @158°F (70°C) for 22 hrs. @347°F (175°C) for 22 hrs.	D395-01 Method B	13 35
Brittleness By Impact Temp., °F (°C)	D746-98	-112 (-80)
Maximum Recommended Continuous Service Temp., °F (°C)	—	400 (204)
Dielectric Strength v/mil (kV/mm)	D149-97	450 (17.7)
Tensile Modulus, @ 200% Elongation, psi (MPa)	D412-98	650 (4.5)

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

Transflow® is a registered trademark.

### Saint-Gobain Performance Plastics

2664 Gilchrist Road  
Akron, OH 44305  
Tel: 800-798-1554  
Tel: (330) 798-9240  
Fax: (330) 798-6968

www.tygon.com



**IMPORTANT:** It is the user's responsibility to ensure the suitability and safety of Saint-Gobain Performance Plastics tubing for all intended uses. Laboratory and clinical tests must be conducted in accordance with applicable regulatory requirements in order to determine the safety and effectiveness for use of tubing in any particular application.

For a period of 6 months from the date of first sale, Saint-Gobain Performance Plastics Corporation warrants this product to be free from defects in materials and workmanship. Our only obligation will be to replace any portion proving defective or at our option to refund the purchase price thereof. User assumes all other risk, if any, including the risk of injury, loss or damage, direct or consequential, arising out of the use, misuse or inability to use this product. THIS WARRANTY IS IN LIEU OF THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR PARTICULAR PURPOSE, AND ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. No deviation is authorized.

Saint-Gobain Performance Plastics Corporation assumes no obligations or liability for any advice furnished by it, or for results obtained with respect to those products. All such advice is given and accepted at the buyer's risk.