

SaniPure™ BDF™

Biocompatible TPE Tubing

Ideal for bioprocessing and single-use systems

SaniPure™ BDF™ is the ideal choice for handling sensitive biological fluid transfer applications. It is easily sealed and welded, allowing aseptic connections and disconnections while protecting high-value fluids from environmental contamination. The ultra-smooth inner bore drastically reduces potential particle entrapment and microscopic build-up during biopharmaceutical manufacturing. It is an ideal choice for integration with Saint-Gobain single-use filters, bags and assemblies.

Low absorption and free from animal derived components

SaniPure™ BDF™ combines the features of traditional silicone tubing with superior peristaltic pump life performance and low absorption characteristics. The innovative design of SaniPure BDF creates an advanced tubing formulation that has an absorption rate significantly lower than silicone, making it the obvious selection when preservative or protein absorption is a concern. In addition, Sani-Pure BDF is certified to be free of materials of animal origin.

Fully Characterized and Biocompatible

SaniPure™ BDF™ tubing comes complete with biocompatibility, physiochemical and extractable testing which can be found in the Validation Guide Summary on the Saint-Gobain Bioprocess Solutions website.

Features / Benefits

- Certified to be free of materials of animal origin
- Ultra-smooth inner bore reduces potential for particle entrapment
- Documented biocompatibility for sensitive applications
- Extremely low absorption and adsorption compared to silicone tubing
- Heat sealable, bondable, weldable, and custom moldable for assemblies
- Superior peristaltic pump life
- Sterilizable

Single-use Applications

- Seed train and cell culture
- Cell harvest, media and buffer processing
- Vaccine production
- Production filtration and fermentation
- Diagnostic equipment and laboratory research
- Bioreactor process lines

SaniPure™ BDF™ Tubing Standard Sizes

Part Number	I.D. in. (mm)	O.D. (inches)	Wall Thickness (inches)	Length (feet)	Minimum Bend Radius (inches)	Maximum Working Pressure at 73°F (23°C) psi (bar)*	Maximum Working Pressure at 180°F (82°C) psi (bar)*
AR400001	1/32 (0.79)	3/32 (2.4)	1/32(0.79)	50 (15.2)	1/4 (0.6)	20 (1.4)	11 (0.8)
AR400002	1/16 (1.6)	1/8 (3.2)	1/32(0.79)	50 (15.2)	1/4 (0.6)	19 (1.3)	8 (0.6)
AR400003	1/16 (1.6)	3/16 (4.8)	1/16 (1.6)	50 (15.2)	1/2 (12.7)	35 (2.4)	14 (1)
AR400007	1/8 (3.2)	1/4 (0.6)	1/16 (1.6)	50 (15.2)	1/2 (12.7)	20 (1.4)	9 (0.6)
AR400012	3/16 (4.8)	5/16 (7.9)	1/16 (1.6)	50 (15.2)	3/4 (19.0)	13 (0.9)	6 (0.4)
AR400013	3/16 (4.8)	3/8 (1.0)	3/32 (2.4)	50 (15.2)	3/4 (19.0)	23 (1.6)	10 (0.7)
AR400017	1/4 (0.6)	3/8 (1.0)	1/16 (1.6)	50 (15.2)	1 (25.4)	15 (1.0)	7 (0.5)
AR400018	1/4 (0.6)	7/16 (11.1)	3/32 (2.4)	50 (15.2)	1 (25.4)	20 (1.4)	8 (0.6)
AR400019	1/4 (0.6)	1/2 (12.7)	1/8 (3.2)	50 (15.2)	1 (25.4)	26 (1.8)	9 (0.6)
AR400027	3/8 (1.0)	1/2 (12.7)	1/16 (1.6)	50 (15.2)	2 (50.8)	11 (.76)	5 (0.3)
AR400029	3/8 (1.0)	5/8 (15.9)	1/8 (3.2)	50 (15.2)	1-1/4 (31.7)	16 (1.1)	6 (0.4)
AR400038	1/2 (12.7)	3/4 (19)	1/8 (3.2)	50 (15.2)	2-1/2 (63.5)	15 (1.0)	6 (0.4)

*Working pressures are calculated at a 1:5 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.

Typical Physical Properties of SaniPure™ BDF™ Tubing

Property	ASTM Method	Value or Rating
Durometer Hardness Shore A, 15 Sec	D2240	60
Brittle Temperature @ °F (°C)	D746	-87 (-66)
Water Absorption, % 24 hrs. @ 73°F (23°C)	D570	0.07
Maximum Recommended Temp., °F (°C)	-	275 (135)
Appearance	-	Opaque
Low Temp. Flexibility, -40°F (-40°C)	D380	Passed (still flexible)

Sterilization Methods

Autoclavable	30 min at 121°C
Gas (Ethylene Oxide)	Yes
Radiation	up to 5Mrad (50kGy)

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WARRANTY: For a period of 12 months from the date of first sale, Saint-Gobain Performance Plastics warrants this product to be free of 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.

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