VERSILON™
Fluid Performance

Versilon™ SPX-50

High-Strength Silicone

Designed for Demanding Requirements

Peroxide-cured Versilon™ SPX-50 silicone tubing is designed for use in applications where flexibility resiliency and durability are required. Produced from a proprietary combination of silicon elastomers, this tubing optimizes critical physical properties such as tensile strength, elongation and compression set, resulting in a more durable product. The smooth inner surface of the tubing reduces the risk of particulate entrapment and microscopic buildup during fluid transfer.

Consistently Reliable Results

Every lot of raw material used in the manufacture of Versilon™ SPX-50 silicone tubing undergoes a series of in-house physical property testing before use. This stringent evaluation of ingredients helps to provide the repeatable quality found in every foot of Versilon™ SPX-50 tubing.

The Leader in Silicone Tubing Innovation

Versilon™ SPX-50 tubing provides versatility in use for a broad range of applications. However, for situations requiring uniquely engineered properties, Saint-Gobain Process Systems can design a tubing formulation suited to meet your specific needs. Specialty formulations may be designed to provide a combination of features including ultra-high temperature resistance, electrical conductivity, reduced density (closed cell sponge), various colors, and long flex life.

Features and Benefits

- Provides resiliency, long-life, and durability
- Ultra-smooth inner bore reduces risk of particulate entrapment
- Withstands temperature extremes from -75°F to 350°F

Typical Applications

- Analytical instrumentation
- Cosmetic production
- Environmental remediation
- Beverage dispensing
- Food and dairy processing
- Appliance manufacturing
- Electronic equipment

Regulatory Compliance

- NSF-51
- FDA 21 CFR PART 177.2600

SAINT-GOBAIN

Versilon™ SPX-50

www.processsystems.saint-gobain.com

Versilon™ SPX-50

Part Number	ID	OD	Wall Thickness	Length	Min. Bend Radius	Max. Working Pressure	
	(in.)	(in.)	(in.)	(ft.)	(in.)	73°F (psi)*	320°F (psi)*
ABX00001	1/32	3/32	1/32	50	1/8	22	21
ABX00002	1/16	1/8	1/32	50	1/4	14	13
ABX00003	1/16	3/16	1/16	50	1/4	22	21
ABX00004	3/32	5/32	1/32	50	1/4	11	10
ABX00005	3/32	7/32	1/16	50	1/4	18	16
ABX00006	1/8	3/16	1/32	50	3/8	9	8
ABX00007	1/8	1/4	1/16	50	1/2	14	13
ABX00009	5/32	7/32	1/32	50	3/4	7	6
ABX00011	3/16	1/4	1/32	50	1	7	6
ABX00012	3/16	5/16	1/16	50	1/2	11	10
ABX00013	3/16	3/8	3/32	50	3/8	14	13
ABX00014	3/16	7/16	1/8	50	3/8	18	16
ABX00016	1/4	5/16	1/32	50	1-1/2	5	4
ABX00017	1/4	3/8	1/16	50	3/4	9	8
ABX00018	1/4	7/16	3/32	50	5/8	12	11
ABX00019	1/4	1/2	1/8	50	5/8	14	13
ABX00022	5/16	7/16	1/16	50	1-1/4	7	6
ABX00023	5/16	1/2	3/32	50	5/8	10	9
ABX00024	5/16	9/16	1/8	50	3/4	7	6
ABX00027	3/8	1/2	1/16	50	1-1/2	9	8
ABX00028	3/8	9/16	3/32	50	1	11	10
ABX00029	3/8	5/8	1/8	50	1	6	5
ABX00033	7/16	5/8	3/32	50	1-3/4	8	7
ABX00036	1/2	5/8	1/16	50	3	5	4
ABX00037	1/2	11/16	3/32	50	1-3/4	7	6
ABX00038	1/2	3/4	1/8	50	1-1/2	9	8
ABX00045	5/8	13/16	3/32	50	3	6	5
ABX00046	5/8	7/8	1/8	50	2-1/2	7	6
ABX00053	3/4	1	1/8	50	2-1/2	7	6
ABX42062	1	1-1/4	1/8	25	5	5	4
ABX42069	1-1/4	1-1/2	1/8	25	6	5	4
ABX42074	1-1/2	2	1/4	25	7	6	5

* 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 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.

Typical Physical Properties

Property	ASTM Method	Value or Rating
Durometer Hardness, Shore A, 15s	D2240-91	45-55
Tensile Strength, psi (MPa)	D412-92	MIN 900 (6.2)
Ultimate Elongation, %	D412-92	MN 250
Tear Resistance, lb-f/in (kN/m)	D624-91 Die B	60 (11)
Specific Gravity	D792-91	1.14-1.20
Maximum Recommended Operating Temp., °F (°C)	—	350 (177) Continuous 400 (204) Intermittent
Color	—	Translucent

Unless otherwise noted, all tests were conducted at room temperature 73°F (23°C). Values shown were determined on 0.075" (1.905 mm) thick extruded strip or 0.075" (1.905 mm) thick molded ASTM plaques or molded ASTM durometer buttons.

Sterilization Methods

Autoclavable in steam
Gas – Ethylene Oxide
Radiation – Gamma or E-Beam

www.processsystems.saint-gobain.com

SAINT-GOBAIN

Saint-Gobain Performance Plastics
3910 Terry-Diane Street
Beaverton, MI 48612

1-888-387-0067
Tel: (989) 435-9533
Fax: (989) 435-2355

Saint-Gobain Performance Plastics
BP 14-La Mothe-aux-Aulnaies
F-89120 Charny, France

Tel: (33) 3-86-63-78-78
Fax: (33) 3-86-63-77-77