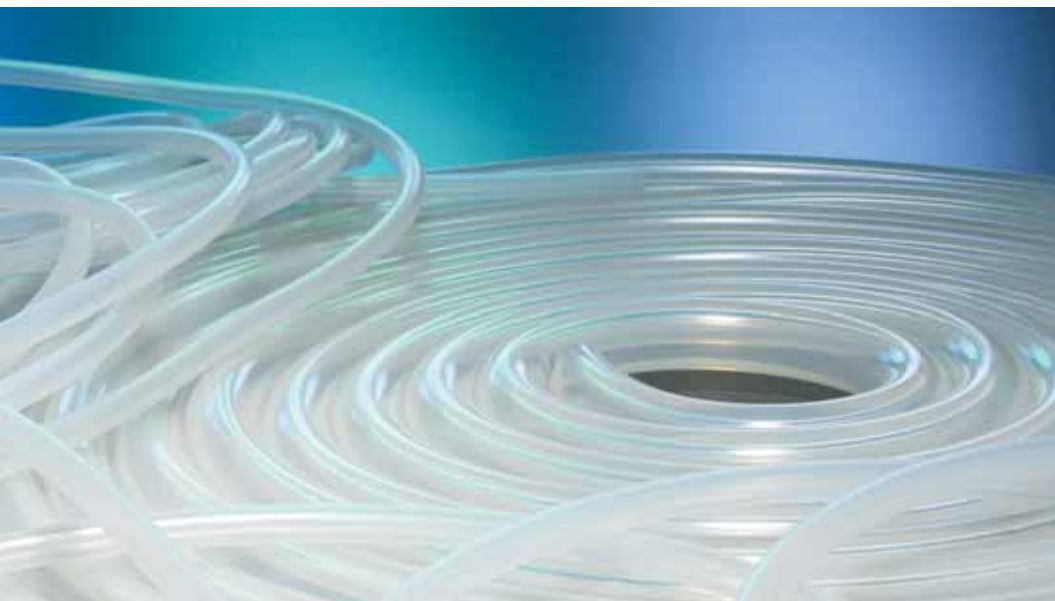


Sani-Tech™ LA-60 Low-Absorption Tubing



Ideal for Maintaining Fluid Integrity

Sani-Tech® LA-60 is a premium low-absorption, platinum-cured silicone tubing especially developed for biotechnology, pharmaceutical, healthcare and laboratory applications. This tubing answers the need for a fluid transport vehicle that would help optimize performance by reducing the propensity for sorption.

Sani-Tech® LA-60 tubing has an absorption rate lower than any elastomeric tubing currently in use, thereby making it a viable alternative when fluid integrity must be maintained. Since Sani-Tech® LA-60 minimizes the removal of preservatives during the manufacturing process, optimum product integrity is assured.

Characteristics

Because this tubing is platinum cured, it possesses unique properties: a smooth inner bore, low absorption of elements, and optimal physical characteristics. This ensures that the common preservatives meta-cresol, benzyl alcohol, methyl paraben, and phenol are optimized in-process.

To ensure quality manufacture of Sani-Tech® LA-60, each incoming lot of raw materials used to produce Saint-Gobain platinum-cured silicone undergoes complete physical testing. Sani-Tech® LA-60 tubing is produced under the most rigid standards for industries in which product integrity cannot be compromised.

Biocompatibility

Sani-Tech® LA-60 silicone tubing complies fully with the requirements of the USP Class VI criteria. In addition, Sani-Tech® LA-60 silicone tubing meets FDA 21 CFR Part 177.2600 criteria for use in food contact applications. Sani-Tech® LA-60 has a Master File with the U.S Food and Drug Administration.

BIOPHARMACEUTICAL PRODUCTS

Retains optimum preservative structure for process integrity

Features/Benefits

- Reduces preservatives removal—exhibits lower absorption rates
- Tubing structure is translucent for fluid inspection
- Great peristaltic pump life characteristics

Typical Applications

- Drug processing
- Insulin production
- Drug therapy
- Chemical synthesis
- Experimental procedures



Sani-Tech® LA-60 Tubing Available Sizes

Part Number	Tubing Size	Length (feet)
F90000	0.125 x 0.25	50
F90001	0.188 x 0.313	50
F90002	0.188 x 0.375	50
F90003	0.25 x 0.375	50
F90004	0.25 x 0.5	50
F90005	0.313 x 0.438	50
F90006	0.375 x 0.5	50
F90007	0.375 x 0.625	50
F90008	0.5 x 0.625	50
F90009	0.5 x 0.75	50

Test Analysis: Standard Laboratory Test Method GD-20
 “Determination of Drug Preservatives in Water Using Gas Chromatography”

Solution Volume: 100 ml

Preservatives Tested:

BA=Benzyl Alcohol

P=Phenol

C=Meta-Cresol

MP=Methyl Paraben

Results: The results were calculated using the method formula, expressed as “% preservative remaining in solution after each time period.” These results are found in the table below.

Results of Tests (% Remaining)

Species #	1	2	3	4
Name	benzyl alcohol	phenol	meta-cresol	methyl paraben
00057-01				
t=0 hours	(100)	(100)	(100)	(100)
t=2	105	100	87	100
t=4	105	103	84	111
t=6	94	91	69	96
t=24	83	72	47	94
t=48	67	50	31	69
t=72	54	34	19	88

Sani-Tech® is a registered trademark.

Sani-Tech® LA-60 Typical Physical Properties

Property	ASTM Method	Value or Rating	Post Autoclave 5 cycles @ 126°C for 120 min.
Durometer Hardness Shore A, 15 Sec	D2240-97	63	63
Color	—	Translucent	—
Tensile Strength psi (MPa)	D412-97	1200	1156
Ultimate Elongation, %	D412-97	430	388
Tear Resistance lb-f/inch (kN/m)	D624-91 Die B	150 (23.6)	—
Specific Gravity	D792-91	1.12	—
Water Absorption, % 24 hrs. @ 23°C	D570-95	+0.010	—
Brittleness by Impact Temp., °F (°C)	D746-95	<-80°C	—
Maximum Recommended Operating Temp., °F (°C)	—	400 (204)	—
Tensile Modulus, @ 100% psi (MPa)	D412-97	262 (2.6)	277

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.

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.

SANI-TECH® TUBING IS NOT INTENDED FOR USE AS AN IMPLANT MATERIAL

BIOPHARMACEUTICAL PRODUCTS

Come through clean.™

Saint-Gobain Performance Plastics

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 Beaverton, MI 48612
 Tel: (989) 435-9533
 Tel: (888) 387-0067
 Fax: (989) 435-2355



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.