SaniSure® Tubing

Simplifying Single-Use Systems.

SANISURE®
Solution Based Innovation

What We Do

Simplifying Single-Use Systems to Build the Best Home a Drug Can Get

SaniSure® is a global leader in the design and manufacturing of single-use systems and components for drug and vaccine manufacturing and other biotech applications. Our core manufacturing capabilities include injection molding, injection-stretch blow molding, cleanroom assembly, tubing extrusion, fabrication, and other proprietary technologies. We have a global footprint of 5 manufacturing sites worldwide to provide our customers with an unrivaled level of vertical integration and supply-chain security.

SaniSure® is simplifying single-use technologies for sterile manufacturing in the single-use bioprocessing industry. With the combination of Cellon, Silicone Altimex, TBL Performance Plastics, and Sani-Tech West in to SaniSure®, our resources, capabilities, and ability to create value for our customers is greater than ever and unmatched in the industry.

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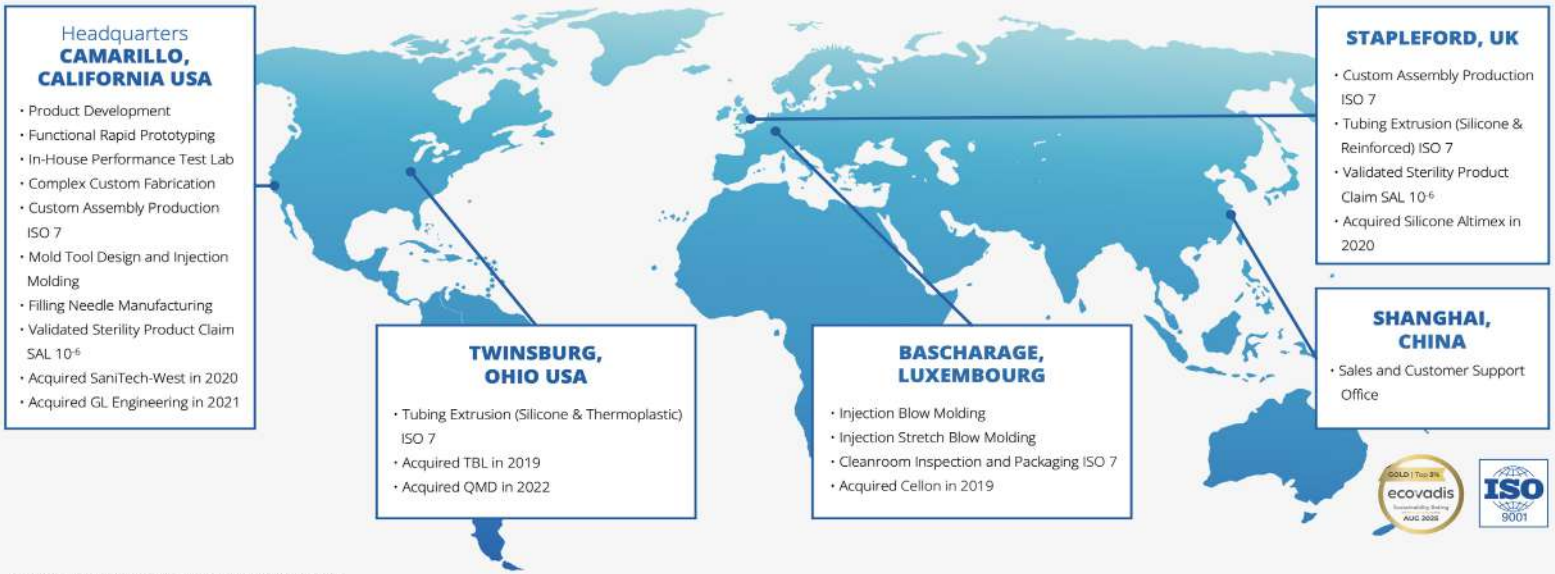
SaniSure®

Global Infrastructure

Our vertically integrated global infrastructure provides the efficiency, flexibility, and security of supply required to meet your biomanufacturing needs.



What Differentiates Our Tubing Offerings?

SaniSure tubing offers superior performances for highly demanding bioprocessing steps.

SaniSure operates three extrusion facilities on two continents. We feature decades of experience manufacturing a variety of thermoplastic and silicone tubing products for the bioprocessing industry.

Engineered for medical, laboratory, and industrial applications, SaniSure tubing offers unmatched performance and durability.

Compliance

Our tubing materials are compliant with well-established, global quality standards for drug and biological manufacturing. We make it easy by outlining all testing performed on each compound we offer. Simply reference the easy-to-use tables within our brochure to select the tubing material that meets your specific application.

Security of Supply

SaniSure operates redundant extrusion facilities on two continents, which assures that your supply chain is always secure.

We offer just-in-time delivery with a standard stocking program. For custom packaging needs, we excel at working both up and down the supply chain to meet our clients' unique delivery needs.

SaniSure®

Tubing Product Lines

Silicone Tubing for Most of the Bioprocessing Fluid Transfer Steps

PLTS-Q50 BioPh
High Volume Single Use Silicone Tubing
p. 6

Pharma-Clear® 65 Series
60 Duro Silicone Transfer Tubing
p. 8

Pharma-Clear® LH Series
Silicone Pump Tubing
p. 10

Pharma-Clear® R Series
High Pressure Reinforced Silicone Tubing
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Weldable and Sealable Thermoplastic Tubing

Cellgyn® TPE
Weldable TPE Tubing
p. 16

Pharma-Line™ I Series
TPV Pump Tubing
p. 18

Cell and Gene Therapy and Blood Transfer Tubing

Cleargreen®
DEHP Free PVC Tubing
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Cleargreen®Pure
Blood & CGT Tubing
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Highly Chemical Resistant and Specialty Tubing

FEP Tubing Fluor-A-Pure™
Chemical Resistant FEP Tubing
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PFA (Hp) Tubing Fluor-A-Pure™
Extreme Chemical resistant PFA Tubing
p. 30

PTFE
Low Coefficient of Friction Tubing
p. 32

PVDF
Low Permeability PVDF Tubing
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Pharm-a-Line VI
Co-extruded LDPE and EVA
p. 35

All tubing products available in coils and spools.

Silicone Tubing for Most Bioprocessing Fluid Transfer Steps

Regulatory Information

Tubing	Generic Material	Application	USP<87> & USP<88> (2)	ISO10993 Parts	Endotoxin USP<85>	ADIF/ACDF Animal Derived Ingredient/ Component Free	California Prop 65	Food Contact	Extractable USP<665> USP<661.2> (2)	Particle Test USP<788>	REACH	RoHS
PLTS-Q50 BioPh	Platinum cured Silicone	General purpose 50 Shore A silicone transfer tubing	Compliant	Compliant to USP class VI, ISO10993-03, -04, -05, -10	Compliant	ACDF	Compliant	FDA 21 CFR 177.2600	USP<665> USP<661.2>	Compliant	540-97-6 ≤0.223% 541-02-6 ≤0.22% 556-67-2 ≤0.19%	Compliant
Pharma-Clear® 65 series	Platinum cured Silicone	61 Shore A silicone transfer tubing	Compliant	Compliant to USP class VI, ISO10993-05, -06, -10, -11	Compliant	ACDF	Compliant	FDA 21 CFR 177.2600	USP<665> USP<661.2>	Compliant	Compliant	Compliant
Pharma-Clear® LH series	Platinum cured Silicone	Long lasting pumping applications	Compliant	Compliant to USP class VI, ISO10993-03, -04, -05, -10	Compliant	ACDF	Compliant	FDA 21 CFR 177.2600	USP<665> USP<661.2>	Compliant	540-97-6 ≤0.223% 541-02-6 ≤0.22% 556-67-2 ≤0.19%	Compliant
Pharma-Clear® R series (1)	Platinum cured Silicone with polyester inner reinforcement	High pressure reinforced braided silicone tubing	Compliant	Compliant to USP class VI, ISO10993-05, -06, -10, -11	Compliant	ACDF	Compliant	FDA 21 CFR 177.2600	USP<665> USP<661.2>	Compliant	Compliant	Compliant

1. Inner tube testing results
2. Please visit our website for additional literature, regulatory information, and other technical resources: **sanisure.com/resources**
   Contact your SaniSure sales representative to request our comprehensive extractables and biocompatibility package.

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Sterilization Methods and Recommended Operating Ranges

Tubing	Generic Material	Autoclave (3)	Gamma Irradiation Recommended Dose	X-Ray	Eto	Chemical Sterilant	Working Low Temperature Range	Working High Temperature Range	Manufacturing Standard	Manufacturing Facility	Dimensional Tolerances	Recycling
PLTS-Q50 BioPh	Platinum cured Silicone	Yes	Yes 25 – 40KGy	Yes	Yes	Yes	-100°F (-73.3°C)	400°F (204.4°C)	ISO 9001:2015	ISO 14644-1 Class 7 cleanroom	RMA E1 Tolerances	
Pharma-Clear® 65 series	Platinum cured Silicone	Yes	Yes 27.5 – 40KGy	Yes	Yes	Yes	-100°F (-73.3°C)	400°F (204.4°C)	ISO 9001:2015	ISO 14644-1 Class 7 cleanroom	RMA E1 Tolerances	
Pharma-Clear® LH series	Platinum cured Silicone	Yes	Yes 25 – 40KGy	Yes	Yes	Yes	-100°F (-73.3°C)	400°F (204.4°C)	ISO 9001:2015	ISO 14644-1 Class 7 cleanroom	RMA E1 Tolerances	
Pharma-Clear® R series (1)	Platinum cured Silicone with polyester inner reinforcement	Yes	Yes 27.5 – 40KGy	Yes	Yes	Yes	-100°F (-73.3°C)	400°F (204.4°C)	ISO 9001:2015	ISO 14644-1 Class 7 cleanroom	RMA RMA E1 Tolerances	

3. Autoclave: Please note that users must validate their sterilization conditions and procedure to ensure this product is suitable for a particular application

PLTS-Q50 BioPh

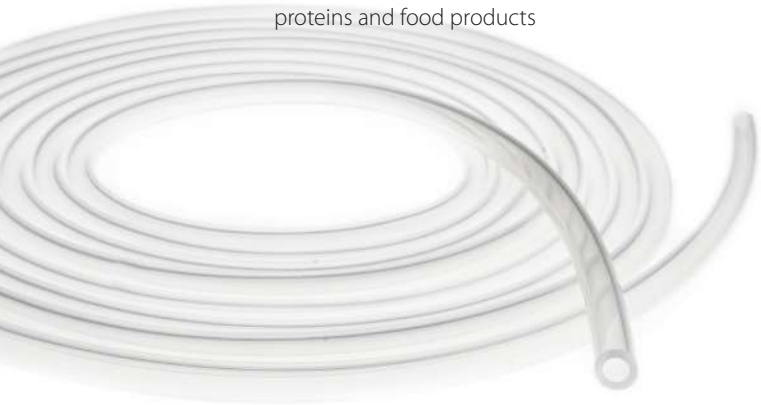
General Purpose 50 Shore A Silicone Transfer Tubing

SaniSure's PLTS-Q50 was developed as a more affordable platinum silicone tubing for Single Use applications. With a shore A of 50 it is softer and compliant and works well with bulk transfer and general pumping applications.

- ISO Class 7 clean room manufacturing
- Standard and custom sizes available
- Manufactured for pharmaceutical and biopharmaceutical applications

Key Features

- Platinum cured Silicone
- Translucent (Good Clarity)
- Hardness: durometer 50 Shore A
- Tasteless, odorless, noncytotoxic and nonhemolytic
- Contains no phthalate plasticizers or peroxides that can leach out into transported fluid
- Low-binding surface minimizes absorption of proteins and food products



Applications

- Single Use
- Transfer Lines
- Cell media processing
- Bioreactor process lines
- Production filtration and fermentation
- Diagnostics and laboratory testing

Property Table

Typical Physical Properties of the Vulcanized Rubber
Test results on moulded slabs
Vulcanized conditions: 10 min.@ 175 °C
Post cure: 4h @ 200 °C in hot air

Physical	Method	Typical Values
Density	BS ISO 2781: 2010	1.16 g/cm^3
Hardness	BS ISO 7619-1: 2010	50 Shore A
Tensile Strength	BS ISO 37: 2011	10 MPa
Elongation at Break	BS ISO 37: 2011	650%
Tear Strength (N/mm)	ASTM D624 B	36 kN/m
Compression Set 22 hours @ 175° C (%)	DIN 53 517	15
Operating Temp. Range	–––	-100°F (-73.3°C) to 400°F (204.4°C)

Typical physical properties are average data and are not to be used as or to develop specifications.

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Sizing Chart PLTS-Q50 BioPh Standard Offerings

Part Number	ID		OD		Wall Thickness		Burst Pressure	Working Pressure	Minimum Bend Radius
	(inch)	(mm)	(inch)	(mm)	(inch)	(mm)			
PLTS-Q50-062x187	0.062	1.5	0.187	4.7	0.062	1.6	70.0	23.3	0.50
PLTS-Q50-093x218	0.093	2.3	0.218	5.5	0.062	1.6	56.0	18.7	0.75
PLTS-Q50-093x281	0.093	2.3	0.281	7.1	0.094	2.4	70.1	23.4	0.50
PLTS-Q50-125x250	0.125	3.1	0.25	6.3	0.062	1.6	46.5	15.5	0.75
PLTS-Q50-125x312	0.125	3.1	0.312	7.9	0.093	2.4	59.7	19.9	0.50
PLTS-Q50-187x312	0.187	4.7	0.312	7.9	0.062	1.6	34.9	11.6	0.75
PLTS-Q50-187x375	0.187	4.7	0.375	9.5	0.094	2.4	46.6	15.5	0.75
PLTS-Q50-250x375	0.248	6.3	0.375	9.5	0.062	1.6	27.9	9.3	2.00
PLTS-Q50-250x437	0.248	6.3	0.437	11.1	0.093	2.4	38.0	12.7	1.50
PLTS-Q50-250x500	0.248	6.3	0.500	12.7	0.125	3.2	46.5	15.5	0.75
PLTS-Q50-312x437	0.312	7.9	0.437	11.1	0.093	2.4	23.3	7.8	3.50
PLTS-Q50-312x500	0.312	7.9	0.500	12.7	0.125	3.2	32.3	10.8	/
PLTS-Q50-312x562	0.312	7.9	0.562	14.3	0.125	3.2	39.9	13.3	1.75
PLTS-Q50-375x500	0.375	9.5	0.500	12.7	0.094	2.4	19.9	6.6	3.50
PLTS-Q50-375x562	0.375	9.5	0.562	14.3	0.125	3.2	27.8	9.3	3.00
PLTS-Q50-375x625	0.375	9.5	0.625	15.9	0.125	3.2	34.9	11.6	2.50
PLTS-Q50-500x687	0.500	12.7	0.687	17.5	0.156	4.0	22.0	7.3	/
PLTS-Q50-500x750	0.500	12.7	0.750	19.1	0.125	3.2	27.9	9.3	/
PLTS-Q50-625x875	0.625	15.8	0.875	22.2	0.062	1.6	23.2	7.7	5.75
PLTS-Q50-750x1000	0.748	19.0	1.000	25.4	0.062	1.6	19.9	6.6	7.50
PLTS-Q50-750x1125	0.748	19.0	1.125	28.5	0.062	1.6	27.9	9.3	5.75
PLTS-Q50-875x1125	0.875	22.2	1.125	28.5	0.062	1.6	17.4	5.8	9.00
PLTS-Q50-875x1250	0.875	22.2	1.248	31.7	0.187	4.8	24.6	8.2	/
PLTS-Q50-1000x1250	1.000	25.4	1.248	31.7	0.187	4.8	15.5	5.2	/
PLTS-Q50-1000x1375	1.000	25.4	1.375	34.9	0.187	4.8	22.0	7.3	/

Note
Standard coil length is 50 feet.

Other length and spools available. Consult factory.

Tubing has no printing.

Specifications in this document are subject to change without notice. Please contact our quality department for the most up-to-date regulatory information.

Datasheet and technical documentation available:
sanisure.com/resources

Pharma-Clear® 65 Series

61 Shore A Silicone Transfer Tubing. More Resistant to Kinking

SaniSure's Pharma Clear 65 was developed for bulk transfer and general pumping applications. With a slightly higher hardness rating, it has very good resilience and kink resistance and typically has higher pressure rating than softer alternatives.

- ISO Class 7 clean room manufacturing
- Standard and customer sizes available
- Manufactured for pharmaceutical and biopharmaceutical applications

Key Features

- Platinum cured Silicone
- Hardness: durometer 61 Shore A
- Excellent pump life
- Translucent (Good Clarity)
- Tasteless/ odorless
- Contains no phthalate plasticizers or peroxides that can leach out into transported fluid
- Low-binding surface minimizes absorption of proteins and food products
- Sterilization Methods: autoclave, gamma radiation, EtO, and chemical sterilants
- Working Low Temperature Range: -100°F (-73.3°C)
- Working High Temperature Range: 400°F (204.4°C)

Applications

- Transfer Lines
- Cell media processing
- Bioreactor process lines
- Production filtration and fermentation
- Diagnostics and laboratory testing

Property Table

Physical	Method	Typical Values
Hardness 10 Seconds	DIN 53 505	61 g/cm^3
Density	DIN 53 479A	1.18 g/cm^3
Tensile Strength	DIN 53 504 S2	11 N/mm^2
Elongation at Break	DIN 53 504 S2	630 %
Tear Strength (N/mm)	ASTM D624B	32 KN/mm
Compression Set 22 hours @ 175° C	DIN 53 517	15%
Operating Temp. Range	----	-100°F (-73.3°C) to 400°F (204.4°C)

Sizing Chart Pharma-Clear® 65 Series Standard Offerings

Part Number	ID		OD		Wall Thickness		Working Pressure	Burst Pressure	Vacuum Rating
	(inch)	(mm)	(inch)	(mm)	(inch)	(mm)	(psi)	(psi)	(hg)
PLTS-65-031X156-50	0.031	0.8	0.156	4.0	0.063	1.6	45.9	137.8	29.5
PLTS-65-063X125-50	0.063	1.6	0.125	3.2	0.031	0.8	22.7	68	29.5
PLTS-65-063X187-50	0.063	1.6	0.187	4.8	0.062	1.6	34.1	102.2	29.5
PLTS-65-125X250-50	0.125	3.2	0.250	6.4	0.063	1.6	22.9	68.7	29.5
PLTS-65-125X312-50	0.125	3.2	0.312	8.0	0.094	2.4	29.5	88.5	29.5
PLTS-65-187X312-50	0.187	4.8	0.312	8.0	0.063	1.6			29.5
PLTS-65-187X375-50	0.187	4.8	0.375	9.6	0.094	2.4	23	68.9	29.5
PLTS-65-187X437-50	0.187	4.8	0.437	11.2	0.125	3.2	27.5	82.6	29.5
PLTS-65-250X375-50	0.250	6.4	0.375	9.6	0.063	1.6	13.7	41.2	15
PLTS-65-250X437-50	0.250	6.4	0.438	11.2	0.094	2.4	20	60	
PLTS-65-250X500-50	0.250	6.4	0.500	12.7	0.125	3.2	22.9	68.7	29.5
PLTS-65-312X437-50	0.312	8.0	0.437	11.2	0.063	1.6	11.4	34.1	5
PLTS-65-312X500-50	0.312	8.0	0.500	12.7	0.094	2.4	15.8	47.4	10
PLTS-65-375X437-50	0.375	9.6	0.437	11.2	0.031	0.8	5.2	15.7	0
PLTS-65-375X562-50	0.375	9.6	0.562	14.4	0.094	2.4	13.7	41.1	10
PLTS-65-375X625-50	0.375	9.6	0.625	16.0	0.125	3.2	17.2	51.5	29.5
PLTS-65-500X750-50	0.500	12.7	0.750	19.0	0.125	3.2	13.7	41.2	10
PLTS-65-500X875-50	0.500	12.7	0.875	22.2	0.187	4.8	13.7	41.2	29.5
PLTS-65-625X1000-50	0.625	15.9	1.000	25.5	0.188	4.8	15.9	47.6	
PLTS-65-750X1125-*50	0.750	19.0	1.125	28.6	0.188	4.8	13.7	41.2	5
PLTS-65-750X1250-50	0.750	19.0	1.250	31.8	0.125	3.2	17.2	51.5	
PLTS-65-1000X1375-50	1.000	25.4	1.375	34.9	0.187	4.8	10.8	32.5	5
PLTS-65-3MMx7MM-50		3.1		7.1		2.1			
PLTS-65-6MM×12MM-50		6.1		12.1		3.1			
PLTS-65-8MM×16MM-50		8.1		16.1		4.1			
PLTS-65-10MM×17MM-50		10.1		17.1		3.5			

Note
Standard coil length is 50 feet.

Other length and spools available. Consult factory.

Tubing has no printing.

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Datasheet and technical documentation available:
sanisure.com/resources

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Pharma-Clear® LH Series

Platinum-Cured Silicone, Low Hysteresis Pump/Transfer Tubing

SaniSure's LH precision platinum-cured silicone tubing is designed specifically for pumping applications. It is a Low Hysteresis material which has lower energy loss per each deformation. Combine that with our precision extrusion tolerances and repeatability makes our LH tubing the best silicone pump tubing today. The LH also has a comprehensive extractable and biocompatibility study.

- ISO Class 7 clean room manufacturing
- Standard and customer sizes available
- Manufactured for pharmaceutical and biopharmaceutical applications

Key Features

- Platinum cured Silicone
- Hardness: durometer 50 Shore A
- Excellent pump life
- Translucent (Good Clarity)
- Tasteless/ odorless
- Contains no phthalate plasticizers or peroxides that can leach out into transported fluid
- Low-binding surface minimizes absorption of proteins and food products
- Sterilization Methods: autoclave, gamma radiation, EtO, and chemical sterilants
- Working Low Temperature Range: -100°F (-73.3°C)
- Working High Temperature Range: 400°F (204.4°C)

Applications

- Peristaltic Pumps
- Pinch Valves
- Transfer Lines
- High-Accuracy Filling
- Shear-sensitive fluid transfer
- Bioreactor process lines
- Production filtration and fermentation
- Diagnostics and laboratory

Property Table

Physical	Method	Typical Values
Hardness 10 Seconds	ASTM D2240	50 ShoreA
Specific Gravity	ASTM D792	1.12 g/cm^3
Tensile Strength	ASTM D412	1100 N/mm^2
Elongation at Break	ASTM D412	450%
Tear Resistance, Die B	ASTM D624	100 lbf/in^2
100% Modulus	ASTM D412	200 psi
Compression Set 22 hours @ 175° C	ASTM D395	30%
Bayshore Resilience	ASTM D2632	60
Operating Temp. Range	–––	-100°F (-73.3°C) to 400°F (204.4C°)

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Sizing Chart Pharma-Clear® LH Series Standard Offerings

Part Number	Pump Size	ID		OD		Wall Thickness		Working Pressure	Burst Pressure	Vacuum Rating	Bend Radius
		(inch)	(mm)	(inch)	(mm)	(inch)	(mm)	(psi)	(psi)	(hg)	(in)
PLTS-LH-031X156-50	13	0.031	0.8	0.156	4.0	0.063	1.6	35	104.9		
PLTS-LH-063X125-50		0.063	1.6	0.125	3.2	0.031	0.8	17.2	51.7	29.5	0.25
PLTS-LH-063X187-50	14	0.063	1.6	0.187	4.8	0.062	1.6	25.9	77.8	29.5	0.5
PLTS-LH-063X250-50	119	0.063	1.6	0.250	6.4	0.094	2.4	31.2	93.7	29.5	0.5
PLTS-LH-093X218-50		0.093	2.4	0.218	5.5	0.063	1.6	21	63.1	29.5	0.5
PLTS-LH-125X250-50	16	0.125	3.2	0.250	6.4	0.063	1.6	17.4	52.3		
PLTS-LH-125X312-50	120	0.125	3.2	0.312	8.0	0.094	2.4	22.4	67.3		
PLTS-LH-125X375-50		0.125	3.2	0.375	9.6	0.125	3.2	26.2	78.5		
PLTS-LH-187X312-50	25	0.187	4.8	0.312	8.0	0.063	1.6	13.2	39.5	29.5	1
PLTS-LH-187X375-50	15	0.187	4.8	0.375	9.6	0.094	2.4	17.5	52.5		
PLTS-LH-187X437-50		0.187	4.8	0.437	11.1	0.125	3.2	21	62.9		
PLTS-LH-250X375-50	17	0.250	6.4	0.375	9.5	0.063	1.6	10.5	31.4	10	1.75
PLTS-LH-250X437-50	24	0.250	6.4	0.437	11.2	0.094	2.4	14.2	42.7	29.5	1.5
PLTS-LH-250X500-50	26	0.250	6.4	0.500	12.7	0.125	3.2	17.4	52.3	29.5	1.5
PLTS-LH-312X375-50		0.312	8.0	0.375	9.6	0.031	0.8	4.7	14.1	0	5
PLTS-LH-312X437-50	18	0.312	8.0	0.437	11.1	0.063	1.6	8.6	25.9	5	2.75
PLTS-LH-312X500-50	35	0.312	8.0	0.500	12.7	0.094	2.4	12	36.1	15	2.25
PLTS-LH-312X562-50		0.312	8.0	0.563	14.3	0.125	3.2	14.9	44.8		
PLTS-LH-375X500-50		0.375	9.6	0.500	12.7	0.063	1.6	7.5	22.4		
PLTS-LH-375X562-50	36	0.375	9.6	0.562	14.3	0.094	2.4	10.4	31.3	15	3
PLTS-LH-375X625-50	73	0.375	9.6	0.625	15.9	0.125	3.2	13.1	39.2	29.5	2.25
PLTS-LH-500X625-50		0.500	12.6	0.625	15.9	0.063	3.2	5.8	17.4		
PLTS-LH-500X750-50	82	0.500	12.7	0.750	19.1	0.125	1.6	10.5	31.4	10	3.75
PLTS-LH-625X875-50	184	0.625	15.9	0.875	22.2	0.125	3.2	8.7	26.2	5	5.25
PLTS-LH-625X1000-50	88	0.625	15.9	1.000	25.4	0.188	4.8	12.1	36.2		
PLTS-LH-750X1000-50		0.750	19.0	1.000	25.4	0.125	3.2	7.5	22.4	0	8
PLTS-LH-750X1125-50	90	0.750	19.0	1.125	28.6	0.188	4.8	10.5	31.4	10	5
PLTS-LH-1000X1375-50	92	1.000	25.4	1.375	34.9	0.189	4.8	8.3	24.8		
PLTS-LH-3MMx7MM-50		0.118	3.0	0.275	7.0	0.078	2.0				
PLTS-LH-6MM×12MM-50		0.236	6.0	0.472	12.0	0.118	3.0				
PLTS-LH-8MM×16MM-50		0.314	8.0	0.629	16.0	0.157	4.0				
PLTS-LH-10MM×17MM-50		0.393	10.0	0.669	17.0	0.098	2.5				

Note
Standard coil length is 50 feet.

Other length and spools available. Consult factory.

Tubing has printing.

No Print (NP) option available.

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Datasheet and technical documentation available:
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Pharma-Clear® R Series

High Pressure Reinforced Braided Silicone Tubing

SaniSure's Pharma-Clear® R Series is a polyester yarn reinforced inner braid tubing and developed for high pressure tubing applications. The platinum silicone that encapsulates the polyester yarn is our Pharma-Clear 65 series and is tested to the same stringent biological and chemistry standards in order to meet or exceed all EU and USFDA regulations for pharmaceutical use.

- ISO Class 7 clean room manufacturing
- Standard and custom sizes available
- Manufactured for pharmaceutical and biopharmaceutical applications

Key Features

- Platinum cured Silicone with polyester inner reinforcement
- Hardness: durometer 61 Shore A
- Excellent Clarity polyester Reinforced for high pressure applications
- Tasteless, odorless
- Contains no phthalate plasticizers or peroxides that can leach out into transported fluid
- Low-binding surface minimizes absorption of proteins and food products
- Sterilization Methods: autoclave, gamma radiation, and chemical sterilants

Applications

- High Pressure transfer line
- Steam in Place (SIP)
- Load Cells Hoses
- Process Hoses

Property Table

Physical	Method	Typical Values
Hardness 10 Seconds	DIN 53 505	61 Shore A
Density	DIN 53 479A	1.18 g/cm^3
Tensile Strength	DIN 53 504 S2	11 N/mm^2
Elongation at Break	DIN 53 504 S2	630%
Tear Strength	ASTM D 624 die B	42 N/mm
Compression Set 22 hours @ 175° C	DIN 53 517	15%
Operating Temp. Range	–––	-100°F (-73.3°C) to 400°F (204.4˚C)

Sizing Chart Pharma-Clear®R Series Standard Offerings

Part Number	ID		OD		Wall Thickness		Working Pressure	Burst Pressure	Vacuum Rating	Bend Radius
	(inch)	(mm)	(inch)	(mm)	(inch)	(mm)	(psi)	(psi)	(hg)	(in)
PLTS-R-125-50-A	1/8″	3.2	.375″	9.6	.125″	3.2	175	525	29.5	0.5
PLTS-R-187-50-A	3/16″	4.8					170	510	29.5	0.75
PLTS-R-250-50-A	1/4″	6.4	.500″	12.7	.125″	3.2	140	420	29.5	1
PLTS-R-375-50-A	3/8″	9.5	.625″	15.9	.125″	3.2	140	420		
PLTS-R-500-50-A	1/2″	12.7	.875″	22.2	.188″	4.8	105	315	10	2.75
PLTS-R-625-50-A	5/8″	15.9	.990″	25.1	.183″	4.6	100	300	10	3.25
PLTS-R-750-50-A	3/4″	19.1	1.125″	28.6	.188″	4.8	90	270		
PLTS-R-1000-50-A	1″	25.4	1.405″	35.6	.202″	5.1	60	180		

Note

Standard coil length is 50 feet.

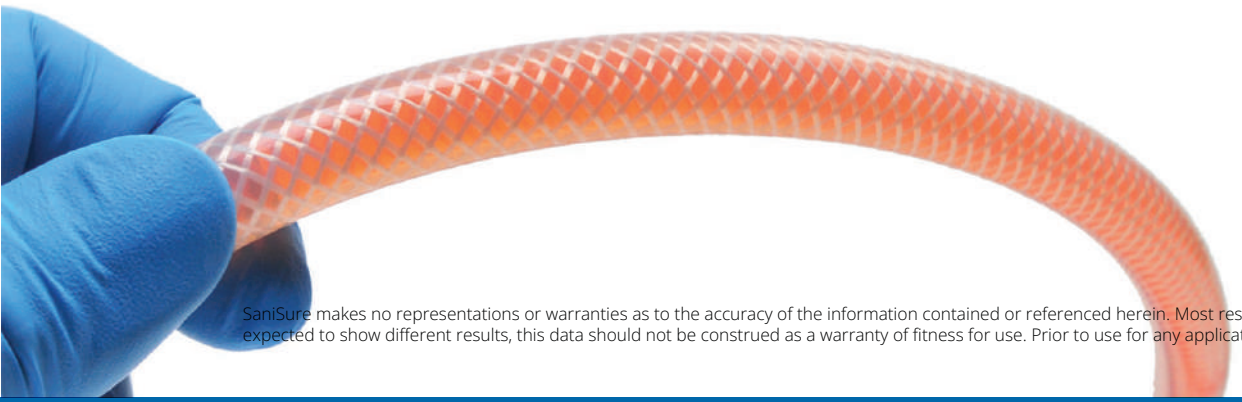
Other length and spools available. Consult factory.

Tubing has printing.

No Print (NP) option available.

Specifications in this document are subject to change without notice. Please contact our quality department for the most up-to-date regulatory information.

Datasheet and technical documentation available:
sanisure.com/resources



Weldable and Sealable Thermoplastic Tubing

Regulatory Information

Tubing	Generic Material	Application	USP<87> & USP<88>	ISO10993 Parts	Endotoxin USP<85>	ADIF/ACDF Animal Derived Ingredient/ Component Free	California Prop 65	Food Contact	Extractable USP<665> USP<661.2> (1)	Particle Test USP<788>	REACH	RoHS
Cellgyn® TPE	TPE Thermoplastic Elastomer (SEBS)	weldable and sealable tubing for general fluid transfer	Compliant	Compliant to USP class VI, ISO10993-05, -06, -10, -11	Compliant	ACDF	Compliant	NA	USP<665>	Compliant	Compliant	Compliant
Pharma-Line™ I series	TPV Thermoplastic vulcanizates	higher chemical resistance, durability and flexibility, fitting pumping applications	Compliant	Compliant to USP class VI, ISO10993-04, -05	Compliant	ACDF	Compliant	NA	USP<665> USP<661.2>	Compliant	Compliant	Compliant

1. Please visit our website for additional literature, regulatory information, and other technical resources: **sanisure.com/resources**
Contact your SaniSure sales representative to request our comprehensive extractables and biocompatibility package.

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Sterilization Methods and Recommended Operating Ranges

Tubing	Generic Material	Autoclave (2)	Gamma Irradiation Recommended Dose	X-Ray	Eto	Chemical Sterilant	Working Low Temperature Range	Working High Temperature Range	Manufacturing Standard	Manufacturing Facility	Dimensional Tolerances	Recycling
Cellgyn® TPE	TPE Thermoplastic Elastomer (SEBS)	Yes	Yes 27.5 – 40KGy	Yes	Yes	Yes	*-71°F (-57.2°C)	275°F (135°C)	ISO 9001:2015	Controlled area	RMA E1 Tolerances	
Pharma-Line™ I series	TPV Thermoplastic vulcanizates	Yes	Yes 27.5 – 40KGy	Yes	Yes	Yes	*-75°F (-59.44°C)	275°F (135°C)	ISO 9001:2015	Controlled area	RMA E1 Tolerances	

2. Autoclave: Please note that users must validate their sterilization conditions and procedure to ensure this product is suitable for a particular application.

*Embrittlement Temperature

Cellgyn®

Weldable and Sealable Tubing for General Fluid transfer

SaniSure's Cellgyn® TPE tubing is designed specifically for the most demanding biopharmaceutical applications. It is ideal for use in single-use assemblies, process filling, and sampling devices and is compatible with all common tube sealers and aseptic tube welders such as Vante, Terumo, BioWelder, GE Sterile Tube Fuser and many more. SaniSure's Cellgyn® is exceptionally clear and has superior gas barrier properties and pressure performance vs. silicone tubing.

- ISO Class 7 clean room manufacturing
- Standard and custom sizes available
- Manufactured for pharmaceutical and biopharmaceutical applications

Key Features

- Thermoplastic elastomer (TPE)
- Translucent
- Compatible with common welding/ sealing machines
- Weld compatible with common TPE tubing brands
- Tasteless, odorless
- Contains no phthalate plasticizers or peroxides that can leach out into transported fluid
- Hardness: durometer 68 Shore A

Applications

- Single-Use Assemblies
- Sealing
- Welding
- Buffer and media preparation
- Cell media processing
- Transfer sets
- Bag manifolds

Property Table

Physical	Method	Typical Values
Hardness 10 Seconds	ASTM D2240	68 Shore A
Specific Gravity	ASTM D792	0.89 g/cm^3
Tensile Stress (100%, strain, 73° F)	ASTM D412	450%
Tensile Stress (300%, strain, 73° F)	ASTM D412	660%
Tensile Strength (Break, 73° F)	ASTM D412	370%
Flow: 100% Strain, 70 ° F	ASTM D412	660 psi
Tensile Strength (Break at 73°F)	ASTM D412	870 psi
Tensile Elongation (Break at 73°F)	ASTM D412	470%
Operating Temp. Range	–––	-71°F (-57.2°C) to 275°F (135°C)

Sizing Chart Cellgyn® Standard Offerings

Part Number	ID		OD		Wall Thickness		Working Pressure	Burst Pressure	Vacuum Rating	Bend Radius
	(inch)	(mm)	(inch)	(mm)	(inch)	(mm)	(psi)	(psi)	(hg)	(in)
CGN-125X250-50	0.125	3.2	0.250	6.4	0.062	1.6	37	111		
CGN-187X312-50	0.187	4.8	0.313	8.0	0.062	1.6	27.8	83.4	29.5	1.25
CGN-187X375-50	0.187	4.8	0.375	9.5	0.094	2.4	37.1	111.4	29.5	1
CGN-250X375-50	0.250	6.4	0.375	9.5	0.062	1.6	22.2	66.6	29.5	1
CGN-250X437-50	0.250	6.4	0.437	11.1	0.094	2.4	30.2	90.7	29.5	2.25
CGN-250X500-50	0.250	6.4	0.500	12.7	0.125	3.2	37	111	29.5	1.25
CGN-312X437-50	0.312	8.0	0.437	11.1	0.062	1.6	18.5	55.6	10	2.5
CGN-312X500-50	0.312	8.0	0.500	12.7	0.094	2.4	25.7	77.1	29.5	1.75
CGN-375X500-50	0.375	9.5	0.500	12.7	0.062	1.6	15.9	47.6	29.5	3
CGN-375X562-50	0.375	9.5	0.562	14.3	0.094	2.4	22.2	66.5	29.5	2.25
CGN-375X625-50	0.375	9.5	0.625	15.9	0.125	3.2	27.8	83.3	10	3.25
CGN-500X750-50	0.500	12.7	0.750	19.1	0.125	3.2	22.2	66.6	15	3.5
CGN-625X875-50	0.625	15.9	0.875	22.2	0.062	1.6	18.5	55.5	0	5.5
CGN-750X1000-50	0.750	19.1	1.000	25.4	0.125	3.2	15.9	47.6	0	6.25
CGN-750X1125-50	0.750	19.1	1.125	28.6	0.187	4.8	22.2	66.6	10	6.25
CGN-1000x1375-20	1.000	25.4	1.375	34.9	0.187	4.8	17.5	52.6	0	8.75
CGN-3MMx7MM-50	4.449	3	0.276	7	-2.087	2	–	–	–	–
CGN-6MM×12MM-50	0.236	6	0.472	12	0.118	3	–	–	–	–
CGN-8MM×16MM-50	0.315	8	0.630	16	0.157	4	–	–	–	–
CGN-10MM×17MM-50	0.394	10	0.669	17	0.138	3.5	–	–	–	–

– = Consult factory

Note

Standard coil length is 50 feet.

Other length and spools available. Consult factory.

Vacuum Rating Note:
Testing conducted on tubing maintained in a straight configuration (no bends) at a standard laboratory temperature of 23°C

Bend Radius Note:
Testing conducted at standard laboratory temperature of 23°C ‡ 2°C, in accordance with ISO 10619-1 Method A1

Burst Note:
Tested at 23˚C

Tubing has printing.

No Print (NP) option available.

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Datasheet and technical documentation available:
sanisure.com/resources

Pharma-Line™ I Series
Thermoplastic Peristaltic Pump Tubing

Manufactured from biocompatible thermoplastic and extruded to precise dimensional tolerances, our Pharma-Line™ I tubing was developed to be compatible with all major peristaltic pumps. Pharma-Line™ I provides an excellent alternative to silicone tubing when resistance to chemicals (such as acetone or methylene chloride) is a concern.

- ISO Class 7 clean room manufacturing
- Standard and custom sizes available
- Manufactured for pharmaceutical and biopharmaceutical applications

Key Features

- Thermoplastic vulcanizates (TPV)
- Opaque
- Excellent Pump Performance
- Good Chemical Resistance
- Tasteless, odorless
- Contains no phthalate plasticizers or peroxides that can leach out into process fluid
- Hardness: durometer 70 Shore A

Applications

- Peristaltic Pumps
- Pinch Valves
- Filling
- Bioreactor process lines
- Fluid transfer

Property Table

Physical	Method	Typical Values
Hardness 10 Seconds	ASTM D2240	70 Shore A
Specific Gravity	ASTM D792	0.952 g/cm³
Tensile, Across Flow: Break 70° F (21° C)	ASTM D412	588 psi
Tensile, Flow: Break 73° F (23° C)	ASTM D412	697 psi
Elongation, Across Flow: Break 73° F (23° C)	ASTM D412	290%
Elongation: Break 70° F (21° C)	ASTM D412	240%
Tear Resistance, Across Flow	ASTM D624	208 lbf/in
Operating Temp. Range	---	-75°F (-59.44°C) to 275° (135°C)

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Sizing Chart Pharma-Line I™ Standard Offerings

Part Number	Pump Size	ID		OD		Wall Thickness		Working Pressure	Burst Pressure	Vacuum Rating	Bend Radius
		(inch)	(mm)	(inch)	(mm)	(inch)	(mm)	(psi)	(psi)	(hg)	(in)
PHI-031X093-50		0.031	0.8	0.093	2.4	0.031	0.8	51.7	155.2		
PHI-031X156-50	13	0.031	0.8	0.156	4.0	0.062	1.6	69.2	207.5	29.5	0.25
PHI-062X125-50		0.062	1.6	0.125	3.2	0.031	0.8	34.9	104.6		0.5
PHI-062X187-50	14	0.062	1.6	0.187	4.7	0.062	1.6	51.3	153.9	29.5	0.25
PHI-062X250-50	119	0.062	1.6	0.250	6.4	0.094	2.4	61.8	185.4	29.5	0.5
PHI-093X218-50		0.093	2.4	0.218	5.5	0.062	1.6	41.6	124.7	29.5	0.75
PHI-125X187-50		0.125	3.2	0.187	4.7	0.031	0.8	20.6	61.7		0.5
PHI-125X250-50	16	0.125	3.2	0.250	6.4	0.062	1.6	34.5	103.5	29.5	1
PHI-125X312-50	120	0.125	3.2	0.312	7.9	0.094	2.4	44.4	133.2	29.5	1
PHI-125X500-50		0.125	3.2	0.500	12.7	0.188	4.8	62.1	186.2		2.25
PHI-187X312-50		0.187	4.7	0.312	7.9	0.062	1.6	25.9	77.7	29.5	1.75
PHI-187X375-50	15	0.187	4.7	0.375	9.5	0.094	2.4	34.6	103.8	29.5	1.25
PHI-187X437-50		0.187	4.7	0.437	11.1	0.094	2.4	41.4	124.3	29.5	2.75
PHI-250X375-50		0.250	6.4	0.375	9.5	0.062	1.6	20.7	62.1	25	2.5
PHI-250X437-50	24	0.250	6.4	0.437	11.1	0.094	2.4	28.2	84.5	29.5	
PHI-250X500-50	26	0.250	6.4	0.500	12.7	0.125	3.2	34.5	103.5	29.5	3.25
PHI-312X437-50	18	0.312	7.9	0.437	11.1	0.062	1.6	17.1	51.3	5	2.25
PHI-312X500-50	35	0.312	7.9	0.500	12.7	0.094	2.4	23.8	71.4	29.5	
PHI-375X500-50		0.375	9.5	0.500	12.7	0.062	1.6				
PHI-375X562-50	36	0.375	9.5	0.562	14.3	0.094	2.4	20.6	61.9	15	2.75
PHI-375X625-50	73	0.375	9.5	0.625	15.9	0.125	3.2	25.9	77.6	29.5	4
PHI-375X750-50		0.375	9.5	0.75	19.1	0.187	4.7				4
PHI-500X750-50	82	0.500	12.7	0.75	19.1	0.125	3.2	20.7	62.1	15	5.5
PHI-500X875-50		0.500	12.7	0.875	22.2	0.187	4.7	28.2	84.6	29.5	
PHI-625X875-50	184	0.625	15.9	0.875	22.2	0.125	3.2	17.2	51.7	15	5.25
PHI-625X1000-50	88	0.625	15.9	1	25.4	0.185	4.7	23.9	71.6	29.5	9.75
PHI-750X1000-50		0.75	19.1	0.750	19.1	0.125	3.2	14.8	44.3		
PHI-750X1062-50		0.75	19.1	0.750	19.1	0.156	4.0	17.8	53.4		
PHI-750X1125-50	90	0.75	19.1	0.625	15.9	0.187	4.7	20.7	62.1	0	
PHI-750X1250-50		0.75	19.1	0.875	22.2	0.250	6.4	25.9	77.6		
PHI-1000X1250-50		1	25.4	1.250	31.8	0.125	3.2				
PHI-1000X1375-50	92	1	25.4	1.370	34.8	0.187	4.7	16.3	49	0	
PHI-3MMx7MM-50			3		7		2				
PHI-6MM×12MM-50			6		12		3				
PHI-8MM×16MM-50			8		16		4				
PHI-10MM×17MM-50			10		17		3.5				

Note
Standard coil length is 50 feet.

Other length and spools available. Consult factory.

Vacuum Rating Note:
Testing conducted on tubing maintained in a straight configuration (no bends) at a standard laboratory temperature of 23°C

Bend Radius Note:
Testing conducted at standard laboratory temperature of 23°C ‡ 2°C, in accordance with ISO 10619-1 Method A1

Burst Note:
Tested at 23˚C

Tubing has printing.

No Print (NP) option available.

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Datasheet and technical documentation available:
sanisure.com/resources

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Cell & Gene Therapy & Blood Transfer Tubing

Regulatory Information

Tubing	Generic Material	Application	USP<87> & USP<88> (1)	ISO10993 Parts	Endotoxin USP<85>	ADIF/ACDF Animal Derived Ingredient/ Component Free	California Prop 65	Extractable USP<665> USP<661.2> (1)	Particle Test USP<788>	REACH
Cleargreen®	DEHP free PVC tubing	DEHP free PVC tubing for Cell & Gene Therapy applications	USP<88> Compliant	Compliant to USP class VI, ISO10993-05	Not Tested	EMA/410/01 rev3 compliant	Compliant	USP<661.1>	Not Tested	Compliant
Cleargreen® Pure	DEHP & phthalate free vinyl tubing	Clean, phthalate free vinyl tubing for blood and Cell & Gene therapies	Compliant	Compliant to USP class VI, ISO10993-04, -05	Not Tested	ACDF	Compliant	USP<665> USP<661.1> USP<661.2>	Compliant	Compliant

1. Please visit our website for additional literature, regulatory information, and other technical resources: **sanisure.com/resources**
   Contact your SaniSure sales representative to request our comprehensive extractables and biocompatibility package.

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Sterilization Methods and Recommended Operating Ranges

Tubing	Generic Material	Autoclave (2)	Gamma Irradiation Recommended Dose	E-Beam	Eto	Chemical Sterilant	Working Low Temperature Range	Working High Temperature Range	Manufacturing Standard	Manufacturing Facility	Dimensional Tolerances	Recycling
Cleargreen®	DEHP free PVC tubing	Yes	Not Tested	Not Tested	Yes	Not Tested	-40°F (-40°C)	165˚F (73.9˚C)	ISO9001:2005	Controlled Envirionment	RMA E1 tolerances	3
Cleargreen® Pure	DEHP & phthalate free vinyl tubing	Yes	<45kGy	Yes	Yes	Not Tested	-40°F (-40°C)	165˚F (73.9˚C)	ISO9001:2005	Controlled Envirionment	RMA E1 tolerances	3

2. Autoclave: Please note that users must validate their sterilization conditions and procedure to ensure this product is suitable for a particular application

Cleargreen®

DEHP free PVC tubing for Laboratory and Pharmaceutical Preparations

SaniSure's Clear Green is a DEHP free PVC tubing. Our flexible vinyl tubing is a clear tubing that can be used in a variety of applications. Clear green has been tested and complies with USP VI as well as other biocompatibility and extractable testing. It is a material of choice for lower cost tubing applications.

- Packaged in controlled environment
- Standard and custom sizes available
- Manufactured for pharmaceutical and biopharmaceutical applications

Key Features

- Low Cost
- Excellent Chemical Resistance
- Excellent Mechanical Properties
- Temperature Rating, 165°F Maxmum
- Compatible with Aseptic Welding and sealing machines

Applications

- Laboratory Research
- Food & Beverage
- Clinical Development
- Buffers Brewery
- Consumer Products
- Environmental
- Raw Milk
- Pharmaceutical Biologics
- Medical Device

Property Table

Physical	Method	Typical Values
Hardness 15 seconds hand held	ASTM D2240	70 Shore A
Density	ASTM D792	1.18 g/cm^3
Tensile Strength, 100% Strain	ASTM D638	750 psi
Tensile Strength at Yield	ASTM D638	1930 psi
Tensile Elongation (Break)	ASTM D638	430%
Recommended Operating Temp.	–––	-40°F (-40°C) to 165F° (73.8°C)

Sizing Chart Cleargreen® Standard Offerings

Part Number	ID (inch)	OD (inch)	Working Pressure (psi)	Vacuum Rating (hg)	Bend Radius (inch)
CG-032X062-50	4/125″	1/16″			
CG-032x093-50	4/125″	5/32″			
CG-062X125-50	1/16″	1/8″	55	29.5	0.250
CG-093X156-50	3/32″	5/32	40	29.5	0.375
CG-118X157-50	.118″	.157″			
CG-120X170-50	.120″	.170″			
CG-125X187-50	1/8″	3/16″	30	25	0.333
CG-125X250-50	1/8″	1/4″	55	29.5	0.375
CG-156X218-50	5/32″	1/4″	25	15	0.750
CG-156X250-50	5/32″	7/32″			
CG-187X312-50	3/16″	5/16″	40	29.5	0.625
CG-187X375-50	3/16″	3/8″	55	29.5	0.125
CG-187X437-50	3/16″	7/16″	70	29.5	0.750
CG-250X375-50	1/4″	3/8″	30	25	1.000
CG-250X437-50	1/4″	7/16″	45	29.5	0.750
CG-250X500-50	1/4″	1/2″	55	29.5	0.625
CG-312X437-50	5/16″	7/16″	25	15	1.375
CG-375X500-50	3/8″	1/2″	20	10	1.750
CG-375X562-50	3/8″	9/16″	30	25	1.375
CG-375X625-50	3/8″	5/8″	40	29.5	1.125
CG-500X625-50	1/2″	5/8″	18	6	2.875
CG-500X687-50	1/2″	11/16″	25	15	2.125
CG-500X750-50	1/2″	3/4″	30	25	1.750
CG-500X1000-50	1/2″	1″			
CG-562X750-50	9/16″	3/4″	20	10	2.500
CG-625x875-50	5/8″	7/8″	25	15	2.375
CG-625X1000-50	5/8″	1″			
CG-687x937-50	11/16″	15/16″			
CG-750X1000-50	3/4″	1″	20	10	3.250
CG-750X1062-50	3/4″	11/16″			
CG-750X1125-50	3/4″	1 1/8″			
CG-875x1125-50	7/8″	1 1/8″	20	8	4.125
CG-1000x1125-50	1″	1 1/8″			
CG-1000X1250-50	1″	1 1/4″	18	5	5.125
CG-1000X1375-50	1″	1 3/8″			

Note

Standard coil lengths is 50 feet.

Other length and spools available. Consult factory.

Burst tested at 23˚C Temp

Tubing has no printing.

No Print (NP) option available.

Specifications in this document are subject to change without notice. Please contact our quality department for the most up-to-date regulatory information.

Datasheet and technical documentation available: **sanisure.com/resources**

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Cleargreen® Pure

Tubing for Advanced Therapies

Cleargreen®Pure has been formulated specifically to advance the standard of Polyvinyl chloride (PVC) tubing used in Blood collection and Cell and Gene Therapy processes. PVC remains the standard in these applications. Cleargreen®Pure addresses the need for a material that is DEHP free, gamma stable and is compatible with aseptic welders and sealers. It has been extensively studied, for its superior toxicological and physiochemical profile.

- Controlled Manufacturing Environment
- Standard and custom sizes available
- Manufactured for pharmaceutical and biopharmaceutical applications

Key Features

- Animal Derivative Free
- DEHP Free
- Non-Phthalate (TOTM plasticized)
- BPA Free
- Gamma Stable
- Compatible with Aseptic Welding and sealing machines
- Crystal Clear

Applications

Pharmaceutical Processing

- Cell Culture Expression
- Cell Harvesting
- Cell Separation and Washing
- Media Transfer

Medical Device

- Blood Collection
- IV Solutions
- Chemotherapy Drug Delivery
- Minimally Invasive Devices

Compatible with aseptic welding and sealing machines.

Property Table

Physical	Method	Typical Values
Hardness 15 seconds hand held	ASTM D2240	70 Shore A
Density	ASTM D792	1.18 g/cm^3
Tensile Strength, 100% Strain	ASTM D531	5.31 MPa
Tensile Strength at Yield	ASTM D531	15.0 Mpa
Tensile Elongation, Break	ASTM D531	410%
Recommended Operating Temp.	---	-40°F (-40°C) to 165°F (73.8°C)

Sizing Chart Cleargreen®Pure Standard Offerings

Part Number	ID (inch)	OD (inch)	Standard Length (ft)	Working Pressure (psi)	Vacuum Rating (hg)	Bend Radius (in)
CGP-032X062-100	1/32″	1/16″	100			
CGP-032X093-100	1/32″	3/32″	100			
CGP-062X125-100	1/16″	1/8″	100			
CGP-093X156-100	3/32″	5/32″	100	55	29.5	0.250
CGP-118X161-100	.118″	.161″	100	40	29.5	0.375
CGP-120X170-100	.120″	.170″	100″			
CGP-125X187-100	1/8″	3/16″	100	30	25	0.333
CGP-125X250-100	1/8″	1/4″	100	55	29.5	0.375
CGP-156X218-100	5/32″	7/32″	100	25	15	0.750
CGP-156X250-100	5/32″	1/4″	100			
CGP-187X312-50	3/16″	5/16″	50	40	29.5	0.625
CGP-187X375-50	3/16″	3/8″	50	55	29.5	0.125
CGP-187X437-50	3/16″	7/16″	50	70	29.5	0.750
CGP-250X375-50	1/4″	3/8″	50	30	25	1.000
CGP-250X437-50	1/4″	7/16″	50	45	29.5	0.750
CGP-250X500-50	1/4″	1/2″	50	55	29.5	0.625
CGP-312X437-50	5/16″	7/16″	50	25	15	1.375
CGP-375X500-50	3/8″	1/2″	50	20	10	1.750
CGP-375X562-50	3/8″	9/16″	50	30	25	1.375
CGP-375X625-50	3/8″	5/8″	.50″	40	29.5	1.125
CGP-500X625-50	1/2″	5/8″	50	18	6	2.875
CGP-500X687-50	1/2″	11/16″	50	25	15	2.125
CGP-500X750-50	1/2″	3/4″	50	30	25	1.750
CGP-500X1000-50	1/2″	1™	50			
CGP-562X750-50	9/16″	3/4″	50	20	10	2.500
CGP-625X875-50	5/8″	7/8″	50	25	15	2.375
CGP-625X1000-50	5/8″	1″	50			
CGP-750X1000-50	3/4″	1″	50	20	10	3.250
CGP-750X1062-50	3/4″	1-1/16″	50			
CGP-750X1125-50	3/4″	1-1/8″	50			
CGP-875X1125-50	7/8″	1-1/8″	50	20	8	4.125
CGP-1000X1125-50	1″	1-1/8″	50			
CGP-1000X1250-50	1″	1-1/4″	50	18	5	5.125
CGP-1000X1375-50	1″	1-3/8″	50			

Note

Standard coil lengths are 100 feet and 50 feet

Other length and spools available. Consult factory.

Burst tested at 23˚C Temp

Tubing has no printing.

No Print (NP) option available.

Specifications in this document are subject to change without notice. Please contact our quality department for the most up-to-date regulatory information.

Datasheet and technical documentation available: **sanisure.com/resources**

Cap2V8® Molded Topworks
For seal integrity.
Pictured with Cleargreen®Pure tubing

Highly Chemical Resistant & Specialty Tubing

Regulatory Information

Tubing	Generic Material	Application	USP<87> & USP<88> (1)	ISO10993 Parts	Endotoxin USP<85>	ADIF/ACDF Animal Derived Ingredient/ Component Free	Food Contact	California Prop 65	Extractable USP<665> USP<661.2> (1)	Particle Test USP<788>	REACH	RoHS
FEP Tubing Fluor-A-Pure™	FEP Fluorinated Ethylene Propylene	Chemical resistant Fluorinated Ethylene Propylene (FEP) tubing	Not Tested	Compliant to USP class VI	Not Tested	ACDF	FDA 21 CFR177.1550 Compliant	Compliant	Not Tested	Not Tested	Compliant	Compliant
PFA (Hp) Tubing Fluor-A-Pure™	PFA virgin perfluoro alkosy	Extreme chemical resistant Perfluoro Alkoxy (PFA) tubing	Not Tested	Compliant to USP class VI	Not Tested	ACDF	FDA 21 CFR177.1550 Compliant	Compliant	Not Tested	Not Tested	Compliant	Compliant
PTFE Tubing	PTFE Polytetra fluoroethylene	Low coefficient of friction PTFE Tubing	Not Tested	Compliant to USP class VI	Not tested	ACDF	FDA 21 CFR177.1550 Compliant	Compliant	Not Tested	Not Tested	Compliant	Compliant
PVDF Tubing	PVDF Polyvinyl idene Fluoride	Low permeability PVDF tubing	Not Tested	Compliant to USP class VI	Not tested	ACDF	FDA 21 CFR177.2600 Compliant	Compliant	Not Tested	Not Tested	Compliant	Compliant
Pharm-A-Line VI	LDPE & EVA co-extruded	Low gas & liquid permeability	Not Tested	Compliant to USP class VI	Not tested	ACDF	FDA 21 CFR177.1550 Compliant	Compliant	Not Tested	Not Tested	Compliant	Compliant

1. Please visit our website for additional literature, regulatory information, and other technical resources: **sanisure.com/resources**
Contact your SaniSure sales representative to request our comprehensive extractables and biocompatibility package.

SANISURE®
Solution Based Innovation

Sterilization Methods and Recommended Operating Ranges

Tubing	Generic Material	Autoclave (2)	Gamma Irradiation Recommended Dose	E-Beam	Eto	Chemical Sterilant	Working Low Temperature Range	Working High Temperature Range	Manufacturing Standard	Manufacturing Facility	Dimensional Tolerances	Recycling Symbol
FEP Tubing Fluor-A-Pure™	FEP Fluorinated Ethylene Propylene	Yes	Not suitable	Not Tested	Yes	Yes	-100°F (-73° C)	400°F (204° C)	ISO 9001:2015	controlled area	RMA E1 tolerances	
PFA (Hp) Tubing Fluor-A-Pure™	PFA virgin perfluoro alkosy	Yes	Not suitable	Not Tested	Yes	Yes	-300˚F (-184.4˚C)	500°F (260° C)	ISO 9001:2015	controlled area	RMA E1 tolerances	
PTFE Tubing	PTFE Polytetra fluoroethylene	Yes	Not suitable	Not Tested	Yes	Yes	-410°F (-210°C)	500°F (260° C)	ISO 9001:2015	controlled area	RMA E1 tolerances	
PVDF Tubing	PVDF Polyvinyl idene Fluoride	Yes	Gamma Stable	Not Tested	Yes	Yes	-20°F (-28.8˚ C)	212° F (100°C)	ISO 9001:2015	controlled area	RMA E1 tolerances	
Pharm-A-Line VI	LDPE & EVA co-extruded	Yes	Yes	Not Tested	Yes	Not Tested	-75°F (-73.3°C)	275°F (-59.4˚C)	ISO 9001:2015	controlled area	RMA E1 tolerances	

2. Autoclave: Please note that users must validate their sterilization conditions and procedure to ensure this product is suitable for a particular application

SaniSure makes no representations or warranties as to the accuracy of the information contained or referenced herein. Most results mentioned above are based on single lots of material. Although a lot-to-lot variance would not be expected to show different results, this data should not be construed as a warranty of fitness for use. Prior to use for any application, the user has the sole responsibility for determining the suitability of these products in any application.

FEP Tubing Fluor-A-Pure™

Chemical Resistant Fluorinated Ethylene Propylene (FEP) tubing

SaniSure's Fluor-A-Pure™ FEP tubing is an option where chemical and thermal resistance of PTFE tubing is required at a low cost. Fluor-A- Pure FEP is made with 100% virgin FEP(fluorinated ethylene propylene). It is resistant to a broad range of industrial solvents, bases, and strong acids. It also has excellent optical clarity.

- Packaged in controlled environment
- Standard and custom sizes available
- Manufactured for pharmaceutical and biopharmaceutical applications

Key Features

- Made from 100% virgin grade high-performance resins
- Chemically inert to most industrial chemicals and solvents
- Excellent UV transmission (optically clear)
- Low permeability High thermal stability
- FDA compliant for food contact
- Superior electrical insulation
- Suitable for use with flare or conventional compression fittings
- Non-flammable
- Non-stick
- Also available on request, coiled (pig-tailed) hose, and convoluted styled tubing constructions

Applications

- Chemical Process
- Electrical Insulation Conduit
- Heat Exchangers
- Laboratory Pharmaceuticals
- Medical Devices
- Semiconductor
- Food Processing
- UV Water purification systems
- Purified Water

Property Table

Physical	Method	Typical Values
Hardness	ASTM D2240	60 Shore D
Specific Gravity	ASTM D792	2.15 g/cm^3
Tensile Strength (PSI)	ASTM D1708	4,000
Elongation (%)	ASTM D638	400
Flex Modulus (PSI)	ASTM D790	90,000
MIT Flex Life	–––	200,000
Operating Temp. Range	–––	-100F° (-184.4°C) to 400° F (204°C)

Sizing Chart FEP Tubing Fluor-A-Pure™ Standard Offerings

Part Number	ID	OD	Wall Thickness	Bend Radius	Working Pressure
FEP-031X062-50	1/32″	1/16″			
FEP-062X125-50	1/16″	1/8″	1/32″	1/2″	445 PSI
FEP-093X156-50	3/32″	5/32″			
FEP-125X187-50	1/8″	3/16″	1/32″	3/4″	296 PSI
FEP-125X250-50	1/8″	1/4″	1/16″	1/2″	460 PSI
FEP-156X250-50	5/32″	1/4″	.047″	3/4″	349 PSI
FEP-187X156-50	3/32″	5/32″	1/16″	1.00″	358 PSI
FEP-187X250-50	3/16″	1/4″	.030″	1.00″	223 PSI
FEP-187X312-50	3/16″	5/16″	1/32″		
FEP-250X312-50	1/4″	5/16″	.030″	1-3/4″	178 PSI
FEP-250X375-50	1/4″	3/8″	1/15″	1.00″	307 PSI
FEP-312X375-50	5/16″	3/8″	.030″	2-1/2″	148 PSI
FEP-312X437-50	5/16″	7/16″			
FEP-375X437-50	3/8″	7/16″	.030″	3-1/2″	127 PSI
FEP-375X500-50	3/8″	1/2″	.062″	2.00″	230 PSI
FEP-437X500-50	7/16″	1/2″	.030″	6.00″	111 PSI
FEP-500X562-50	9/16″	9/16″			
FEP-500X625-50	1/2″	5/8″	.062″	3.00″	184 PSI
FEP-625X750-50	5/8″	3/4″	1/16″	6.00″	153 PSI
FEP-1000X1100-50	1″	1.1″			
FEP-1000X1125-50	1″	1-1/8″	.062″		76 PSI
FEP-2MM×4MM-50	2MM	4MM	1mm	1 1/12″	467 PSI
FEP-4MM×6MM-50	4MM	6MM	1mm	1 3/4″	309 PSI
FEP-6MM×8MM-50	6MM	8MM	1mm	2-1/2″	323 PSI
FEP-8MM×10MM-50	8MM	10MM	1mm	2-3/4″	185 PSI
FEP-10MMx12MM-50	10MM	12MM	1mm	4.00″	155 PSI

Note
Standard coil length is 50 feet.

Other length and spools available. Consult factory.

Working Pressure:
Tested at 23˚C Temp

Tubing has no printing.

No Print (NP) option available.

Specifications in this document are subject to change without notice. Please contact our quality department for the most up-to-date regulatory information.

Datasheet and technical documentation available:
sanisure.com/resources

PFA (Hp) Tubing Fluor-A-Pure™

Extreme Chemical Resistant Perfluoro Alkoxy (PFA) Tubing

SaniSure's Fluor-A-Pure PFA tubing has been specifically developed for the most extreme Chemical and ultra-high purity service conditions. Unlike typical high purity grades of PFA, Fluor-A-Pure PFA is manufactured from 100% virgin PFA. It also has excellent flexibility compared to other grades of PFA tubing.

- Packaged in controlled environment
- Standard and custom sizes available
- Manufactured for pharmaceutical and biopharmaceutical applications

Key Features

- 100% Virgin High Performance Grade Resin used to resist stress cracking
- Chemically inert to nearly all industrial chemicals & solvents
- High thermal stability
- Low permeation
- Translucent Excellent electrical properties
- Non-Flammable
- Smooth surface finish resulting in less area of particle entrapment.
- Extremely low moisture absorption
- Suitable for use with flare or conventional fittings
- Non-flammable
- Non-stick

Applications

- Pharmaceutical
- Fine Chemical Processes
- Heat Exchangers
- Laboratory Applications
- Flow Monitoring
- Inert Gases
- Food Processing
- UV Water purification systems

Property Table

Physical	Method	Typical Values
Specific Gravity	ASTM D792	2.15 g/cm^3
Tensile Strength, PSI, MPA	ASTM D412	4,200 (28.9)
Tensile Elongation	ASTM D412	400%
MIT Flex Life	---	500,000+
Flex Modulus	ASTM D790	90,000
Hardness	ASTM D2240	60 Shore D
Operating Temp. Range	---	-300F° (-184.4°C) to 500F° (260°C)

Sizing Chart PFA (Hp) Tubing Fluor-A-Pure™ Standard Offerings

Part Number	ID	OD	Wall Thickness	Bend Radius	Working Pressure
TBL-PFA-062X125-50	1/16″	1/8″	1/32″	1/2″	449 PSI
TBL-PFA-062X187-50	1/16″	3/16″	1/16″	1/2″	617 PSI
TBL-PFA-093X156-50	3/32″	5/32″	1/32″	1/2″	360 PSI
TBL-PFA-125X187-50	1/8″	3/16″	1/32″	3/4″	299 PSI
TBL-PFA-125X250-50	1/8″	1/4″	1/16″	1/2″	454 PSI
TBL-PFA-156X250-50	5/32″	1/4″			
TBL-PFA-187X250-50	3/16″	1/4″	1/32″	1.00″	225 PSI
TBL-PFA-187X312-50	3/16″	5/16″	1/16″	1.00″	371 PSI
TBL-PFA-250X312-50	1/4″	5/16″	1/32″	1-3/4″	179 PSI
TBL-PFA-250X375-50	1/4″	3/8″	1/16″	1.00″	310 PSI
TBL-PFA-375X500-50	3/8″	1/2″	1/16″	2.00″	232 PSI
TBL-PFA-437X500-50	7/16″	1/2″	1/32″	4.00″	112 PSI
TBL-PFA-500X562-50	1/2″	9/16″	1/32″		
TBL-PFA-500X625-50	1/2″	5/8″	1/16″	3.00″	186 PSI
TBL-PFA-625X750-50	5/8″	3/4″	1/16″	6.00″	155 PSI
TBL-PFA-750X875-50	3/4″	7/8″	1/16″	12.00″	133 PSI
TBL-PFA-875X1000-50	7/8″	1″	1/16″	22.00″	116 PSI
TBL-PFA-1000X1125-50	1″	1-1/8″	1/16″		105 PSI
TBL-PFA-2MM×4MM-50	2MM	4MM	1MM		
TBL-PFA-4MM×6MM-50	4MM	6MM	1MM		
TBL-PFA-6MMX8MM-50	6MM	8MM	1MM		
TBL-PFA-8MMX10MM-50	8MM	10MM	1MM		
TBL-PFA-10MMX12MM-50	10MM	12MM	1MM		

Note

Standard coil length is 50 feet.

Other length and spools available. Consult factory.

Burst tested at 23˚C Temp

Tubing has no printing.

No Print (NP) option available.

Specifications in this document are subject to change without notice. Please contact our quality department for the most up-to-date regulatory information.

Datasheet and technical documentation available:
sanisure.com/resources

PTFE Tubing

Low Coefficient of Friction Polytetrafluoroethylene (PTFE)

SaniSure's Fluor-A-Pure PTFE tubing is a widely used fluoropolymer that make it ideal for a wide range of applications. With Temperature range of approximately -300F to 500F. In addition, it has excellent electrical properties and low permeability. It is very chemical resistant and has a very low coefficient of friction and is one of the most "slippery" substances known.

- Packaged in controlled environment
- Standard and custom sizes available
- Manufactured for pharmaceutical and biopharmaceutical applications

Key Features

- Non Flammable
- Low Permeability
- No plasticizers
- Non-stick surface
- FDA Compliant
- Excellent electrical properties
- Resistant to nearly all industrial chemicals
- 100% virgin grade PTFE resins
- Best in class flexibility
- Chemically inert and resistant to nearly all industrial chemicals and solvents
- Lowest coefficient of friction
- Suitable for use with conventional fittings

Applications

- Laboratory
- Chemical Processes
- Analytical and Process Equipment
- Cryogenic
- Electrical
- High Temperature Applications

Mechanical

Physical	Test Method	Typical Values
Hardness	ASTM D2240	60 Shore D
Tensile Strength	ASTM D1708	3500 PSI
Tensile modulus	ASTM D790	80,000 PSI
Elongation	ASTM D638	300%
Flexural Modulus	ASTM D790	90,000
Specific Gravity	ASTM D792	2.15 g/cm^3
Operating Temp. Range	–––	-410°F (-245.5°C) to 500°F (260°C)

Sizing Chart PTFE Standard Offerings

Part Number	ID	OD	Wall Thickness	Bend Radius	Max WP @ 72 °F
TBL-PTFE-062X125-50	1/16″	1/8″	1/32″	1/2″	300 PSI
TBL-PTFE-125X250-50	1/8″	1/4″	1/16″	1/2″	310 PSI
TBL-PTFE-125X187-50	1/8″	3/16″	1/32″	3/4″	200 PSI
TBL-PTFE-156X250-50	.156	.250″	.041″		
TBL-PTFE-170X250-50	.170″	.250″	.040″	1″	200 PSI
TBL-PTFE-187X250-50	3/16″	1/4″	1/32″	1″	150 PSI
TBL-PTFE-187X312-50	3/16″	5/16″	1/16″		
TBL-PTFE-250X312-50	1/4″	5/16″	1/16″	1-3/4″	275 PSI
TBL-PTFE-250X375-50	1/4″	3/8″	1/16″	3/4″	207 PSI
TBL-PTFE-295X375-50	.295″	.375″	.040″		
TBL-PTFE-312X375-50	5/16″	3/8″	1/32″		
TBL-PTFE-375X500-50	3/8″	1/2″	1/16″	2-1/2″	155 PSI
TBL-PTFE-437X500-50	7/16″	1/2″	1/32″	6.00″	75 PSI
TBL-PTFE-625X750-50	5/8″	3/4″	1/16″		
TBL-PTFE-2MMX4MM-50	2MM	4MM	1MM		
TBL-PTFE-4MMX6MM-50	4MM	6MM	1MM	1″	208 PSI
TBL-PTFE-6MMX8MM-50	6MM	8MM	1MM	2″	125 PSI
TBL-PTFE-8MM×10MM-50	8MM	10MM	1MM		
TBL-PTFE-10MMX12MM-50	10MM	12MM	1MM	4″	104 PSI

Note

Standard coil length is 50 feet.

Other length and spools available. Consult factory.

Burst tested at 23˚C temp.

Tubing has no printing.

No Print (NP) option available.

Specifications in this document are subject to change without notice. Please contact our quality department for the most up-to-date regulatory information.

Datasheet and technical documentation available: **sanisure.com/resources**

PVDF Tubing

Low Permeability Polyvinylidene Fluoride (PVDF) Tubing

SaniSure's PVDF (Polyvinylidene Fluoride Fluoropolymer) provides good abrasion wear and low permeability. Our PVDF upper use temperature of 212F° is lower then PFA, however, is a material of choice in high purity and chemical resistant applications. It is also a lower cost option than PFA.

- Packaged in controlled environment
- Standard and custom sizes available
- Manufactured for pharmaceutical and biopharmaceutical applications

Key Features

- Low cost
- Excellent Chemical Resistance
- Excellent Mechanical Properties
- Heat Weldable and Fusible
- Gamma/UV Stable
- Non Hemolytic

Applications

- Pharmaceutical
- Food Processing
- Fine Chemical Process
- Purified Water
- Wire Insulation and Jacketing

Mechanical

Physical	Test Method	Typical Values
Specific Gravity	ASTM D792	1.82 g/cm^3
Tensile Yield Strength	ASTM D638	2,000 - 6,000 psi (14 - 41 MPa)
Tensile Break Elongation	ASTM D638	30 - 800%
Flexural Strength @ 5% Strain	ASTM D790	2,000 - 5,000 psi (14 - 34 MPa)
Flexural Modulus	ASTM D790	28,000 - 180,000 psi (192 - 1,241 MPa)
Notched Izod Impact Strength	ASTM D256	1.8 - 25 ft-lb/in
Unnotched Izod Impact Strength	ASTM D256	15 - 80 ft-lb/in
Operating Temp. Range	–––	-20°F (-28.89°C) to 212° F (100°C)

Sizing Chart PVDF Standard Offerings

Part Number	ID		OD		Wall Thickness		Radius	Working Pressure
	(inch)	(mm)	(inch)	(mm)	(inch)	(mm)	(in)	(psi)
F-PVDF-062X125-50	0.062	1.587	0.125	3.175	0.500	12.70	0.500	451
F-PVDF-125X187-50	0.125	3.175	0.187	4.763	0.312	7.938	0.750	168
F-PVDF-125X250-50	0.125	3.175	0.250	6.350	0.062	1.587	0.500	126
F-PVDF-156X250-50	0.156	3.969	0.250	6.350	0.047	1.194	0.750	177
F-PVDF-187X250-50	0.187	4.763	0.250	6.350	0.312	7.938	1.000	126
F-PVDF-250X312-50	0.250	6.350	0.312	7.938	0.312	7.938	1.750	101
F-PVDF-250X375-50	0.250	6.350	0.375	9.525	0.312	7.938	1.000	174
F-PVDF-312X375-50	0.312	7.938	0.375	9.525	0.312	7.938	2.500	84
F-PVDF-375X500-50	0.375	9.525	0.500	12.70	0.625	15.87	2.000	130
F-PVDF-500X625-50	0.500	12.70	0.625	15.87	0.625	15.87	3.000	104
F-PVDF-625X750-50	0.625	15.87	0.750	19.05	0.625	15.87	5.000	87
F-PVDF-875X1000-50	0.875	22.22	1.000	25.40	0.625	15.87	22.00	65
F-PVDF-2MMX4MM-50		2MM		2MM		1MM		
F-PVDF-4MMX6MM-50		4MM		4MM		1MM		
F-PVDF-6MMX8MM-50		6MM		6MM		1MM		
F-PVDF-8MMX10MM-50		8MM		8MM		1MM		
F-PVDF-10MM×12MM-50		10MM		12MM		1MM		

Note
Standard coil length is 50 feet.

Other length and spools available. Consult factory.

Burst tested at 23˚C Temp

Tubing has no printing.

No Print (NP) option available.

Specifications in this document are subject to change without notice. Please contact our quality department for the most up-to-date regulatory information.

Datasheet and technical documentation available:
sanisure.com/resources

Pharm-A-Line VI

LDPE/EVA Coextruded Tubing

SaniSure's Pharma-A-Line VI is a coextruded tubing with the inner liner made of clear low-density polyethylene (LDPE) material. The outer shell is manufactured from high-purity ethylene vinyl acetate (EVA), which gives superior flexibility and clarity with good burst strength. It is very resistant to most solvents and excellent barrier characteristics with low gas and liquid permeability.

- Packaged in controlled environment
- Standard and custom sizes available
- Manufactured for pharmaceutical and biopharmaceutical applications

Key Features

- Superior Chemical Resistance
- Flexible Welds with RF and Conventional Heat Sealers
- Easy to Post-fabricate
- Superior Pressure Rating
- Nonhemolytic
- Low Cost

Applications

- Pharmaceutical
- Food Processing
- Fine Chemical Process
- Purified Water
- Wire Insulation and Jacketing

Mechanical

Physical	Method	Typical Values
Hardness at10 Sec	ASTM D2240	70 Shore A
Specific Gravity	ASTM D792	0.952
Tensile, Across Flow: Break 70° F (21° C)	ASTM D412	588 psi
Tensile, Flow: Break 73° F (23° C)	ASTM D412	697 psi
Elongation, Across Flow: Break 73° F (23° C)	ASTM D412	290%
Elongation: Break 70° F (21° C)	ASTM D412	240%
Tear Resistance, Across Flow	ASTM D624	208 lbf/in
Flow	ASTM D624	208 lbf/in
Operating Temp. Range	–––	-75°F (-73.3°C) to 275°F (-59.4°C)

SANISURE® Solution Based Innovation

Sizing Chart Pharm-A-Line VI Standard Offerings

Part Number	ID	OD	Wall Thickness	Max WP @ 72 °F
PH**-062X187	1/16"	3/16″	1/16″	76 PSI
PH**-125X187	1/8"	3/16″	1/32″	43 PSI
PH**-125X250	1/8"	1/4″	1/16″	70 PSI
PH**-187X312	3/16"	5/16″	1/16″	60 PSI
PH**-187X250	3/16"	1/4″	1/32″	38 PSI
PH**-250X375	1/4"	3/8″	1/16″	60 PSI
PH**-312X437	5/16"	7/16″	1/16″	52 PSI
PH**-375X500	3/8"	1/2″	1/16	50 PSI
PH**-375X625	3/8"	5/8″	1/16″	50 PSI
PH**-500X625	1/2"	5/8″	1/16″	32 PSI
PH**-500X750	1/2"	3/4″	1/8″	50 PSI
PH**-625X875	5/8"	7/8″	1/8″	47 PSI
PH**-750X1.00	3/4"	1″	1/8″	40 PSI

Note

Standard coil length is 50 feet.

Other length and spools available. Consult factory.

Burst tested at 23˚C Temp

Tubing has printing.

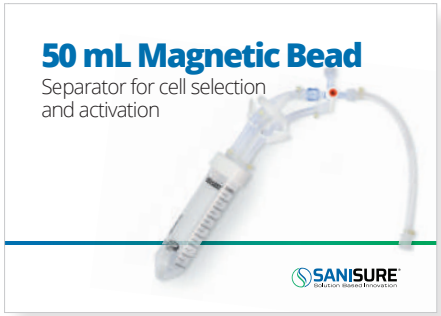
No Print (NP) option available.

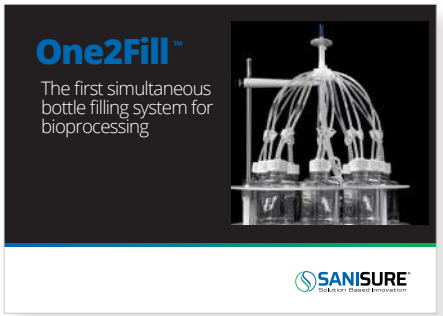
Specifications in this document are subject to change without notice. Please contact our quality department for the most up-to-date regulatory information.

Datasheet and technical documentation available: **sanisure.com/resources**

SaniSure Related Products

PharmaTainer™





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