

## SUREPRENE TUBING

SurePrene tubing is manufactured from pharmaceutical-grade thermoplastic elastomer, and is fully characterised, validated, and tested to a variety of specifications & meets the critical demands of pharmaceutical and biopharmaceutical applications for fluid processing.

SurePrene Tubing's long peristaltic life ensures process security, reducing risks in critical cGMP applications.



## KEY FEATURES

- Provides prolonged pump life
- Very Low Spallation.
- Broad chemical compatibility
- Excellent low absorption and adsorption characteristics as compared to silicone
- Low permeability as compared to silicone
- Smooth interior for excellent flow and performance
- Translucent for fluid flow visibility
- Excellent tubing component for Single-Use systems
- Custom lengths, sizes, and packaging are available
- Double-bagged; sealed in polybags at manufacture for cleanliness
- Documented lot traceable with identification on packaging
- Documented quality control per ISO 13485:2016
- Single resin validation.

## APPLICABLE CERTIFICATES

- COA - Laboratory Test Report
- FDA 21CFR177.1810
- EC 1935/2004
- USP Class VI
- European Pharmacopeia 3.2.9
- Free of silicone oils
- Free of Animal-derived content free (ADCF)
- REACH Compliance
- RoHS Compliance
- Autoclave or gamma radiation Sterilizable declaration
- Quality control per ISO 13485:2016

## APPLICATIONS

- Sterile filling
- Vaccine production
- Peristaltic Pump
- Pharmaceutical sampling and delivery systems
- Bioreactor processes & Biopharma Manufacturing
- Cell culture operations and fermentation
- Pharmaceutical production and processing
- High purity water transfer
- Aseptic sealing disconnections
- Aseptic welding connections
- Ideal for use in single-use assemblies
- Buffer and Media preparation
- Purification Operations
- Diagnostics Products
- Single-use fluid transfer sets
- Laboratory R&D

# SURPRENE TUBING



SOLUTIONS IN SILICONE

ID	OD	Working Pressure at 70°F (21.1°C)		Standard Lengths Coiled
		PSI	Bar	
(mm.)	(mm.)			(ft.)
0.8	2.4	30	2.1	100
1.6	3.2	18	1.3	100
1.6	4.8	32	2.2	100
3.18	6.35	30	2.1	50,100
4.76	7.94	23	1.6	50,100
4.76	9.52	32	2.2	50,100
6.35	9.52	20	1.4	50,100
6.35	11.11	23	1.6	50,100
6.35	12.7	30	2.1	50,100
7.94	11.11	21	1.4	50,100
7.94	12.7	24	1.6	50,100
9.52	12.7	18	1.3	50,100
9.52	14.3	23	1.6	50,100
9.52	15.88	24	1.6	50,100
12.7	19.09	22	1.5	50,100
15.88	22.23	18	1.3	50,100
19.05	25.4	17	1.2	50,100
19.5	28.58	18	1.3	50
25.4	34.93	18	1.3	50

\*CUSTOM LENGTHS, SIZES, AND PACKAGING AVAILABLE AS PER YOUR REQUEST.

## SUREPRENE TRANSPARENT TECHNICAL DATA SHEET

SR No	PHYSICAL PROPERTIES	TEST METHOD	UNIT	SPECIFICATION
1	Hardness	ASTM D 2240	Shore A	60±5
2	Tensile Strength (Min)	ASTM D 412	Kg/cm <sup>2</sup>	Min 90
3	Elongaon at Break (Min)	ASTM D 412	%	Min 400
4	Tear Strength (Min) - (Type - C)	ASTM D 412	Kg/cm	Min 25
5	Temperature Range	-	°C	-40 TO 140
6	Specific Gravity	ASTM D 792	g/cm <sup>3</sup>	Min 0.7
7	MFI @ 190°C /2.16 kgs.	ASTM D 1238	gm/10 min	0 TO 0.5

## SUREPRENE MILKY WHITE TECHNICAL DATA SHEET

SR No	PHYSICAL PROPERTIES	TEST METHOD	UNIT	SPECIFICATION
1	Hardness	ASTM D 2240	Shore A	60±5
2	Tensile Strength (Min)	ASTM D 412	Kg/cm <sup>2</sup>	Min 60
3	Elongaon at Break (Min)	ASTM D 412	%	Min 300
4	Tear Strength (Min) - (Type - C)	ASTM D 412	Kg/cm	Min 20
5	Temperature Range	-	°C	-40 TO 140
6	Specific Gravity	ASTM D 792	g/cm <sup>3</sup>	Min 0.7
7	MFI @ 190°C /2.16 kgs.	ASTM D 1238	gm/10 min	0 TO 0.5

**MATERIAL SAFETY DATA SHEET**

DOC ID: SE/TPE60/MSDS/22-23-01

**PRODUCT NAME : SUREPRENE**

<b>1. Identification of the substance/preparation and of the company.</b>	
Trade name:	SurePrene
Chemical name:	Thermoplastic Elastomer
Identification of the company:	C1/55, G.I.D.C. Phase-II, Dediyanan, Mehsana - 384002, Gujarat, India. Phone: +91 8758587666 Emergency phone number: +91 8141601666
<b>2. Identification of the substance/preparation and of the company</b>	
Classification of the substance or mixture:	Thermoplastic Elastomer SEBS (Styrene-ethylene-butylene-styrene) + Aditives
Special advice on hazards:	No hazardous ingredient
<b>3. Composition / information on ingredients</b>	
Chemical nature:	Thermoplastic Elastomer- Granules
Additional information:	No harmful substances used.
<b>4. First-aid measures</b>	
4.1 If inhaled:	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Contact a physician in case of discomfort.
4.2 On skin contact:	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes.
4.3 On contact with eyes:	In case of contact with eyes, rinse open eyes thoroughly with water. If irritation develops, seek immediate medical attention.
4.4 On ingestion:	No effects known. Rinse mouth with water and then drink plenty of water. Do not induce vomiting unless directed to do so by medical personnel. Seek medical Attention if difficulties or discomfort occur.

<b>5. Firefighting measures</b>	
5.1 Suitable extinguishing media:	In case of fire, Use water spray, dry extinguishing media, foam, or CO2
5.2 Specific hazards:	No specific fire or explosion hazard.
5.3 Special protective equipment:	Full protective clothing and self-contained breathing apparatus.
<b>6. Accidental Release Measures</b>	
6.1 Personal precautions:	Use personal protective equipment/clothing. Avoid eye contact and dust formation and remove all sources of ignition. Sweep up to prevent slipping hazard.
6.2 Environmental precautions:	Prevent entry into drainage systems, or surface water. Sweep/shovel into suitable container for disposal.
6.3 Methods for cleaning up:	Avoid raising dust and ensure adequate ventilation.
<b>7. Handling and storage</b>	
7.1 Handling:	Use personal protective equipment (see Section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed.
7.2 Storage:	Store in a well-ventilated, cool, dry place. Avoid excessive heat and ignition sources
7.3 Precautions:	No special precautions required.
<b>8. Exposure controls / personal protection</b>	
8.1 Occupational exposure limits:	None.
8.2.1 Engineering control:	Handle in a well ventilated area.
8.2.2 Exposure controls:	Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation.



<b><u>Personal protective equipment</u></b>	
8.3.1 Hand protection:	Wear Chemical-resistant, impervious gloves when handling chemical products.
8.3.2 Eye protection:	Safety eyewear complying when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts.
8.3.3 Skin and body protection:	Wear (heat protective) clothing to avoid direct exposure of skin to hot product when handling.
8.3.4 Safety and hygiene measures:	Eye wash fountains and safety showers must be easily accessible. Handle in accordance with good industrial hygiene and safety practice. No eating or drinking during working.
<b>9. Physical and chemical properties</b>	
9.1 Form:	Granules
9.2 Colour:	Translucent, Transparent, Natural
9.3 Odour:	Faint odor
9.4 Tast:	tasteless
9.5 Melting range:	Not available
9.6 Boiling range:	Not available
9.7 Auto-ignition temperature:	Not available
9.8 Density:	Not available
9.9 Solubility in water:	Insoluble in cold water

<b>10. Stability and reactivity</b>	
10.1 Stability:	Product is stable at recommended storage conditions.
10.2 Conditions to avoid:	Not specified.
10.3 Substances to avoid:	Not specified.
10.4 Hazardous reactions:	
10.4.1 Hazardous decomposition products:	The product is chemically stable. At processing temperatures some degree of thermal degradation may occur.
<b>11. Toxicological information</b>	
11.1 Information on toxicological effects:	Toxicological data has not been determined for this product. Information is based on similar products.
11.1.1 <u>Acute toxicity</u> Inhalation: Ingestion: Skin contact: Eye contact:	No data available, but not expected. No data available, but not expected. No data available, but not expected. No data available, but not expected.
11.1.2 <u>Irritation</u> Skin: Eye: Sensitization: Repeated dose toxicity: Carcinogenicity: Mutagenicity: Toxicity for reproduction:	Not expected to be irritating. Not expected to be irritating. Not expected to be a skin sensitizer. Not expected to cause toxic effects. No data available, but not expected. No data available, but not expected. No data available, but not expected.
11.2 Other information:	Based on our state of knowledge and experience no injurious health effects are expected if product is properly handled for the designated use.
<b>12. Ecological information</b>	
Information on eco-toxicity:	No ecological toxicity data has been generated for this product. There are no test results available and information is based on similar products.

Ecological toxicity effects:	No negative ecological effects are known at the present state of knowledge.
Mobility in soil:	Not available.
Persistence and degradability:	Chemicals are not readily available as they are bound within the polymer matrix.
Bioaccumulation potential:	Not available.
<b>13. Disposal considerations</b>	
Product:	Generation of waste should be minimized, check possibility for recycling. Waste product can be dumped together with domestic waste in compliance with local authority requirements.
Packaging:	Packaging material has to be emptied completely and disposed in accordance with the regulations.
<b>14. Transport information</b>	
International Air Transportation Association Classification (IATA):	Not classified as dangerous good under transport regulations.
International Maritime Organization (IMDG):	Not classified as dangerous good under transport regulations.
<b>15. Regulatory information</b>	
15.1 EU / National regulations:	This product does not require a hazard warning label in accordance with EC/EU Directives.

<b>16. Other information</b>	
Company name:	Suresh Enterprises
Disclaimer:	The information given in the Material Safety Data Sheet only applies to the described product in connection with its appropriate use. All information is based on the latest state of our knowledge. In particular, it describes our product under the aspect of possible hazards and pertaining safety measures. The information does not constitute any guarantee of specific product and/or quality properties. It mainly serves the purpose of providing sufficient information on a voluntary basis to ensure safe use of the product.

Type of Certification	Certificate Link
CLEAN ROOM CLASS 10000 CERTIFICATE (SurePrene Transparent)	<a href="https://bit.ly/3Gxrzfc">https://bit.ly/3Gxrzfc</a>
SurePrene Chemical Compatibility Guide	<a href="https://bit.ly/3Kpm17O">https://bit.ly/3Kpm17O</a>
SurePrene Chemical Compatibility Chart A-B-C-D	<a href="https://bit.ly/3KPESu7">https://bit.ly/3KPESu7</a>

An ISO 9001:2010,14001:2015,13485:2016,45001:2018 and IATF 16949 : 2016 Certified Company

Corporate & Manufacturing Units

Unit-1:- C1/55/57/58, GIDC Phase-2, Dediyan, Mehsana- 384002, Gujarat, india

Unit-2:- C1/137, GIDC Phase-2, Dediyan, Mehsana- 384002, Gujarat, india

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