



Innovasil® P 50

FDA DMF III registration number 037209

Biopharmaceutical platinum-cured silicone tubing



Platinum vulcanized high-purity silicone hose is designed with a special formula to have a good service life and excellent flow stability of the peristaltic pump. At the same time, a special post-treatment process is adopted to reduce the leachate to an extremely low level, and it has a complete verification report and leachate research, which is especially suitable for use in biopharmaceutical disposable systems.

Pharmaceutical Grade

Innovasil® P 50 is specially developed for use in single-use systems for biopharmaceuticals. It uses a platinum vulcanization system and high-purity silica gel raw materials, with a special post-treatment process, and is produced and packaged in an ISO Class 7 clean production workshop certified by NEBB, so that the product has high purity and extremely low level of leachables. At the same time, the

advanced technology ensures that the product has a very smooth inner surface, which minimizes protein binding and ensures high purity of the finished product. The whole batch of raw materials and production process can be traced, and the authoritative third-party testing organization in the United States has a complete research report on biocompatibility and dissolved substances.

+ Features

- Suitable for use with peristaltic pumps
- low protein binding
- low leachable levels
- ISO class 7 clean room production
- Control D4, D5, D6 levels
- Perfect verification report
- No animal origin, no pyrogens
- Custom sizes and pack lengths available

+ Regulations & Certifications

- ISO 10993-3, 4, 5, 10, 11
- USP 87/88 Class VI
- ADCF
- FDA DMF III
- USP665/BPOG Extractables Research
- FDA 21CFR 177.2600
- USP 788,85,643,71
- EP 3.1.9
- USP 381, 661

+ Application

- Peristaltic pump application in pharmaceutical production process
- Disposable System Fluid Transfer
- Aseptic filling
- vaccine production
- buffer transfer
- cell culture
- cell collection
- Filtration and purification

+ Innovasil® P 50 Typical Physical Properties

Physical Properties Table	Test Methods	Unit	Typical Value
Color	-		Colorless & transparent
Shore A hardness, 5sec	ASTM D 2240		50
Density	ASTM D 792		1.13
Operating temperature			-60°C to +200°C
Gas permeability			High
Water absorption			Low
Tensile strength at break	ASTM D 412	Mpa	9.6
Tensile elongation at break	ASTM D 412	%	630
Tear tensile strength	ASTM D1004-94	kN/m	55
Permanent compression set, 23°C 22hrs	ASTM D395-98-B	%	8.5
Peristaltic pump life	600rpm,no back pressure,17#Hose	Hrs	120
Sterilization method	125°C for 30 mins damp heat sterilization, ethylene oxide sterilization, irradiation (max 40kGy) sterilization		

+ Innovasil® P 50 Inventoried Sizes*

*Other calibers, lengths or packing methods can be customized

Cat. No.	Model	ID (mm) (inch)	OD (mm) (inch)	Wall Thickness (mm) (inch)	Length Per Package* (m) (foot)	Minimum Bending Radius	RECO Working Pressure	RECO Vacuum Pressure
SP29-202-0050-0150	Metric size	0.50	1.50	0.50	15.2 50	3mm		1.0bar
SP29-202-0079-0397	13#	0.79 1/32	3.97 5/32	1.59 1/16	15.2 50	3mm	1.5bar	1.0bar
SP29-202-0100-0200	Metric size	1.00	2.00	0.50	15.2 50	3mm		1.0bar
SP29-202-0150-0250	Metric size	1.50	2.50	0.50	15.2 50	3mm		1.0bar
SP29-202-0100-0300	Metric size	1.00	3.00	1.00	15.2 50	3mm	1.0bar	1.0bar
SP29-202-0159-0318		1.59 1/16	3.18 1/8	0.79 1/32	15.2 50	6mm	1.0bar	1.0bar
SP29-202-0159-0476	14#	1.59 1/16	4.76 3/16	1.59 1/16	15.2 50	6mm	1.5bar	1.0bar
SP29-202-0159-0635	119#	1.59 1/16	6.35 1/4	2.38 3/32	15.2 50			
SP29-202-0200-0400	Metric size	2.00	4.00	1.00	15.2 50	6mm		
SP29-202-0238-0556	19#	2.38 3/32	5.56 7/32	1.59 1/16	15.2 50	6mm	1.2bar	1.0bar
SP29-202-0300-0500	Metric size	3.00	5.00	1.00	15.2 50			
SP29-202-0318-0476		3.18 1/8	4.76 3/16	0.79 1/32	15.2 50	10mm	0.6bar	
SP29-202-0318-0635	16#	3.18 1/8	6.35 1/4	1.59 1/16	15.2 50	13mm	1.0bar	1.0bar
SP29-202-0318-0794	120#	3.18 1/8	7.94 5/16	2.38 3/32	15.2 50			
SP29-202-0397-0714		3.97 5/32	7.14 9/32	1.59 1/16	15.2 50			
SP29-202-0476-0794	25#	4.76 3/16	7.94 5/16	1.59 1/16	15.2 50	13mm	0.8bar	1.0bar
SP29-202-0476-0953	15#	4.76 3/16	9.53 3/8	2.38 3/32	15.2 50	10mm	1.0bar	1.0bar
SP29-202-0635-0953	17#	6.35 1/4	9.53 3/8	1.59 1/16	15.2 50	19mm	0.6bar	1.0bar
SP29-202-0635-1111	24#	6.35 1/4	11.11 7/16	2.38 3/32	15.2 50	16mm	0.8bar	
SP29-202-0635-1270	26#	6.34 1/4	12.70 1/2	3.18 1/8	15.2 50	16mm	1.0bar	
SP29-202-0794-1111	18#	7.94 5/16	11.11 7/16	1.59 1/16	15.2 50	32mm	0.5bar	1.0bar
SP29-202-0794-1270	35#	7.94 5/16	12.70 1/2	2.38 3/32	15.2 50	16mm	0.7bar	
SP29-202-0953-1270	96#	9.53 3/8	12.70 1/2	1.59 1/16	15.2 50	38mm	0.6bar	0.7bar
SP29-202-0953-1429	36#	9.53 3/8	14.29 9/16	2.38 3/32	15.2 50	25mm	0.8bar	1.0bar
SP29-202-0953-1588	73#	9.53 3/8	15.88 5/8	3.18 1/8	15.2 50	25mm	0.4bar	1.0bar
SP29-202-1111-1429		11.11 7/16	14.29 9/16	1.59 1/16	15.2 50			
SP29-202-1270-1588		12.70 1/2	15.88 5/8	1.59 1/16	15.2 50	76mm	0.3bar	
SP29-202-1270-1905	82#	12.70 1/2	19.05 3/4	3.18 1/8	15.2 50	38mm	0.6bar	1.0bar
SP29-202-1270-2223	88#	12.70 1/2	22.23 7/8	4.76 3/16	15.2 50			
SP29-202-1588-2064		15.88 5/8	20.64 13/16	2.38 3/32	15.2 50	76mm	0.4bar	
SP29-102-1588-2223	184#	15.88 5/8	22.23 7/8	3.18 1/8	7.62 25	64mm	0.5bar	1.0bar
SP29-102-1588-2540	89#	15.88 5/8	25.4 1	4.76 3/16	7.62 25			
SP29-102-1905-2540		19.05 3/4	25.4 1	3.18 1/8	7.62 25	64mm	0.5bar	0.7bar
SP29-102-1905-2858	191#	19.05 3/4	28.58 1-1/8	4.76 3/16	7.62 25			
SP29-102-1905-3175	91#	19.05 3/4	31.75 1-1/4	6.35 1/4	7.62 25			
SP29-102-2540-3175		25.40 1	31.75 1-1/4	3.18 1/8	7.62 25	127mm	0.3bar	
SP29-102-2540-3493	92#	25.40 1	34.93 1-3/8	4.76 3/16	7.62 25			0.9bar
SP29-102-2540-3810		25.40 1	38.10 1-1/2	6.35 1/4	7.62 25			

*The recommended working pressure is the calculated value of the burst pressure measured by ASTM D1599 at a ratio of 1:4 at 23 degrees
For the detailed compatibility of Innovasil® P 50 with various chemical solvents, please refer to "Innovalene® Product Chemical Compatibility Information Sheet" or consult our sales staff