

+ Innovasil® G 50 Peristaltic Pump Silicone Tubing

Innovasil G 50 is a platinum-cured silicone tubing with a hardness of Shore A 50. It is a fluid transmission and peristaltic pump tubing specially developed for fluid equipment in the industrial and food industries. It is a silicone peristaltic pump tube with a special formula, long service life and low flow attenuation. The special extrusion process ensures the smoothness of the inner wall, which has high chemical resistance and is especially suitable for long-term use in the industrial and food fields.

Adopt precision extrusion process, strictly control the dimensional tolerance, and can customize the cutting length. It can also be used for secondary treatment processes such as bonding buckles, punching and coding, laser etching, etc., and customized production.



*Other calibers, lengths or packing methods can be customized

Cat. No.	Model	ID (mm) (inch)	OD (mm) (inch)	Wall Thickness (mm) (inch)	Per Package Length* (m) (foot)
SG29-201-0051-0368	112#	0.51 1/50	3.68	1.59 1/16	15.2 50
SG29-201-0079-0397	13#	0.79 1/32	3.97 5/32	1.59 1/16	15.2 50
SG29-201-0100-0200	Metric size	1.00	2.00	0.50	15.2 50
SG29-201-0150-0250	Metric size	1.50	2.50	0.50	15.2 50
SG29-201-0100-0300	Metric size	1.00	3.00	1.00	15.2 50
SG29-201-0159-0318		1.59 1/16	3.18 1/8	0.79 1/32	15.2 50
SG29-201-0159-0476	14#	1.59 1/16	4.76 3/16	1.59 1/16	15.2 50
SG29-201-0159-0635	119#	1.59 1/16	6.35 1/4	2.38 3/32	15.2 50
SG29-201-0200-0400	Metric size	2.00	4.00	1.00	15.2 50
SG29-201-0238-0556	19#	2.38 3/32	5.56 7/32	1.59 1/16	15.2 50
SG29-201-0300-0500	Metric size	3.00	5.00	1.00	15.2 50
SG29-201-0318-0476		3.18 1/8	4.76 3/16	0.79 1/32	15.2 50
SG29-201-0318-0635	16#	3.18 1/8	6.35 1/4	1.59 1/16	15.2 50
SG29-201-0318-0794	120#	3.18 1/8	7.94 5/16	2.38 3/32	15.2 50
SG29-201-0397-0714		3.97 5/32	7.14 9/32	1.59 1/16	15.2 50
SG29-201-0476-0794	25#	4.76 3/16	7.94 5/16	1.59 1/16	15.2 50
SG29-201-0476-0953	15#	4.76 3/16	9.53 3/8	2.38 3/32	15.2 50
SG29-201-0635-0953	17#	6.35 1/4	9.53 3/8	1.59 1/16	15.2 50
SG29-201-0635-1111	24#	6.35 1/4	11.11 7/16	2.38 3/32	15.2 50
SG29-201-0635-1270	26#	6.34 1/4	12.70 1/2	3.18 1/8	15.2 50
SG29-201-0794-1111	18#	7.94 5/16	11.11 7/16	1.59 1/16	15.2 50
SG29-201-0794-1270	35#	7.94 5/16	12.70 1/2	2.38 3/32	15.2 50
SG29-201-0953-1270	96#	9.53 3/8	12.70 1/2	1.59 1/16	15.2 50
SG29-201-0953-1429	36#	9.53 3/8	14.29 9/16	2.38 3/32	15.2 50
SG29-201-0953-1588	73#	9.53 3/8	15.88 5/8	3.18 1/8	15.2 50
SG29-201-1111-1429		11.11 7/16	14.29 9/16	1.59 1/16	15.2 50
SG29-201-1270-1588		12.70 1/2	15.88 5/8	1.59 1/16	15.2 50
SG29-201-1270-1905	82#	12.70 1/2	19.05 3/4	3.18 1/8	15.2 50
SG29-201-1270-2223	88#	12.70 1/2	22.23 7/8	4.76 3/16	15.2 50
SG29-201-1588-2064		15.88 5/8	20.64 13/16	2.38 3/32	15.2 50
SG29-101-1588-2223	184#	15.88 5/8	22.23 7/8	3.18 1/8	7.62 25
SG29-101-1588-2540	89#	15.88 5/8	25.4 1	4.76 3/16	7.62 25
SG29-101-1905-2540		19.05 3/4	25.4 1	3.18 1/8	7.62 25
SG29-101-1905-2858	191#	19.05 3/4	28.58 1-1/8	4.76 3/16	7.62 25
SG29-101-1905-3175	91#	19.05 3/4	31.75 1-1/4	6.35 1/4	7.62 25
SG29-101-2540-3175		25.40 1	31.75 1-1/4	3.18 1/8	7.62 25
SG29-101-2540-3493	92#	25.40 1	34.93 1-3/8	4.76 3/16	7.62 25
SG29-101-2540-3810		25.40 1	38.10 1-1/2	6.35 1/4	7.62 25

+ Innovasil® G 50 Product Specification

Peristaltic Pump Tubing															
Feature	Platinum cured silicone tubing • Colorless and transparent • Suitable for peristaltic pumps • Compliant with RoHS, REACH, FDA standards														
Caution	• Avoid high pressure														
Material	• Platinum cured silicone														
Operating temperature range	-40 °C to +200C														
Physical properties	<table><tr><td>Color</td><td>Colorless & transparent</td></tr><tr><td>Shore A Hardness ASTM D 2240</td><td>50 A</td></tr><tr><td>Density ASTM D792</td><td>1.25 g/cm3</td></tr><tr><td>Tensile Strength at Break ASTM D 412</td><td>5.2 MPa</td></tr><tr><td>Tensile Elongation ASTM D 412</td><td>750 %</td></tr><tr><td>Tear Strength ASTM D 1004-94</td><td>45 kN/m</td></tr><tr><td>Permanent Compression Set 23°C 22hrs ASTM D 395</td><td>5.5 %</td></tr></table>	Color	Colorless & transparent	Shore A Hardness ASTM D 2240	50 A	Density ASTM D792	1.25 g/cm3	Tensile Strength at Break ASTM D 412	5.2 MPa	Tensile Elongation ASTM D 412	750 %	Tear Strength ASTM D 1004-94	45 kN/m	Permanent Compression Set 23°C 22hrs ASTM D 395	5.5 %
Color	Colorless & transparent														
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Tear Strength ASTM D 1004-94	45 kN/m														
Permanent Compression Set 23°C 22hrs ASTM D 395	5.5 %														
Regulations and Certifications	RoHS, REACH, FDA														
Sterilization	125 degrees 30 minutes damp heat sterilization single time ETO ethylene oxide sterilized single time 25kGy irradiation sterilization single time														
Gas permeability	<table><tr><td>CO₂</td><td>2547</td><td>Gas volume (cm³) x wall thickness (mm)</td></tr><tr><td>O₂</td><td>4715</td><td>Inner Diameter Sectional Area (cm²) x Time (sec) x 10⁻⁹</td></tr><tr><td>N₂</td><td>2284</td><td>x Pressure drop along pipe wall (cm Hg)</td></tr></table>	CO ₂	2547	Gas volume (cm ³) x wall thickness (mm)	O ₂	4715	Inner Diameter Sectional Area (cm ²) x Time (sec) x 10 ⁻⁹	N ₂	2284	x Pressure drop along pipe wall (cm Hg)					
CO ₂	2547	Gas volume (cm ³) x wall thickness (mm)													
O ₂	4715	Inner Diameter Sectional Area (cm ²) x Time (sec) x 10 ⁻⁹													
N ₂	2284	x Pressure drop along pipe wall (cm Hg)													
Odor	none														
Toxicity	none														
Theoretical service life	at 0 bar life 120 hrs at 0.7 bar 50 hrs														

+ Innovasil® HP Pressure-resistant Peristaltic Pump Silicone Tubing

- Longest service life of Innovasil tubing material
- Excellent choice where peristaltic pump use and good working pressure resistance is needed

Innovasil HP is a platinum-cured silicone peristaltic pump hose with Shore A hardness of 60. It is colorless and transparent, has good resilience and good wear resistance. It can be used under 2 bar pressure or back pressure, and can be used for high-pressure peristaltic pumps and other advantages.



*Other calibers, lengths or packing methods can be customized

Cat. No.	Model	ID (mm) (inch)	OD (mm) (inch)	Wall Thickness (mm) (inch)	Per Package Length* (m) (foot)
SH49-201-0050-0150	Metric size	0.50	1.50	0.50	15.2 50
SH49-201-0079-0397	13#	0.79 1/32	3.97 5/32	1.59 1/16	15.2 50
SH49-201-0100-0200	Metric size	1.00	2.00	0.50	15.2 50
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SH49-201-0100-0300	Metric size	1.00	3.00	1.00	15.2 50
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SH49-201-0159-0476	14#	1.59 1/16	4.76 3/16	1.59 1/16	15.2 50
SH49-201-0159-0635	119#	1.59 1/16	6.35 1/4	2.38 3/32	15.2 50
SH49-201-0200-0400	Metric size	2.00	4.00	1.00	15.2 50
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Note

For detailed compatibility with various chemical solvents, please refer to "Innovaprene® Product Chemical Compatibility Information Sheet" or consult our sales personnel.

+ Innovasil® HP Product Specification

Peristaltic Pump Tubing															
Feature	- Can withstand 2bar working pressure and can be used with peristaltic pumps - Chemical resistance, resistant to lye, fuel oil, lubricants, etc. - Colorless and transparent - Temperature range from -40°C to 200°C, can be sterilized once - Compliance with RoHS and REACH standards														
Caution															
Material	Platinum vulcanized silicone														
Operating temperature range	-40°C to +200C														
Physical properties	<table><tr><td>Color</td><td>Colorless & transparent</td></tr><tr><td>Shore A Hardness ASTM D 2240</td><td>60A</td></tr><tr><td>Density ASTM D792</td><td>1.25 g/cm³</td></tr><tr><td>Tensile Strength at Break ASTM D 412</td><td>9.5 MPa</td></tr><tr><td>Tensile Elongation ASTM D 412</td><td>500 %</td></tr><tr><td>Tear Strength ASTM D 1004-94</td><td>55 N/mm</td></tr><tr><td>Permanent Compression Set 23°C 22hrs ASTM D 395</td><td>15%</td></tr></table>	Color	Colorless & transparent	Shore A Hardness ASTM D 2240	60A	Density ASTM D792	1.25 g/cm ³	Tensile Strength at Break ASTM D 412	9.5 MPa	Tensile Elongation ASTM D 412	500 %	Tear Strength ASTM D 1004-94	55 N/mm	Permanent Compression Set 23°C 22hrs ASTM D 395	15%
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Theoretical service life	at 0 bar life 200 hrs at 0.7 bar 200hrs														