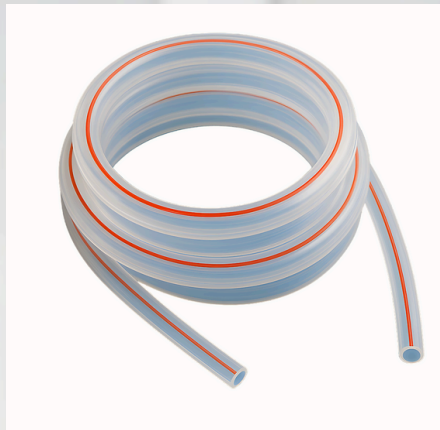


MakSil



MESSAGE FROM CHIEF EXECUTIVE OFFICER

At Makvin Polymer, we believe innovation begins with integrity — in our materials, our processes, and our relationships. From our earliest days, our vision has been simple yet powerful: to deliver world-class silicone products that combine precision engineering with uncompromising quality.

Our journey has been built on consistency, trust, and the relentless pursuit of excellence. Each hose, tube, and gasket we manufacture reflects our commitment to performance, durability, and safety — values that define who we are and what we stand for.

As we continue to expand our capabilities and strengthen partnerships worldwide, we remain guided by one mission: to make high-performance silicone solutions more accessible and reliable for industries that depend on them every day.

Thank you for being part of our story — a story shaped by innovation, integrity, and a shared vision for a better, more connected future.

Warm Regards,
Kevin Patel
Chief Executive Officer



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Tubings

Peroxide Cured Silicone Tube

Silicone tubing designed for industrial and non critical fluid transfer. Strong, durable, and heat resistant. Makvin Polymer's peroxide cured silicone tubes are designed for dependable performance in industrial environments where ultra-high purity isn't mandatory. These tubes offer flexibility, heat resistance, and durability, making them ideal for general-purpose and non-critical fluid transfer applications.



Key Features

- Resistant to moderate heat, ozone, and UV
- Cost-effective solution for general use
- Strong mechanical properties for demanding environments
- Available in custom sizes and colors
- Long-lasting under standard industrial

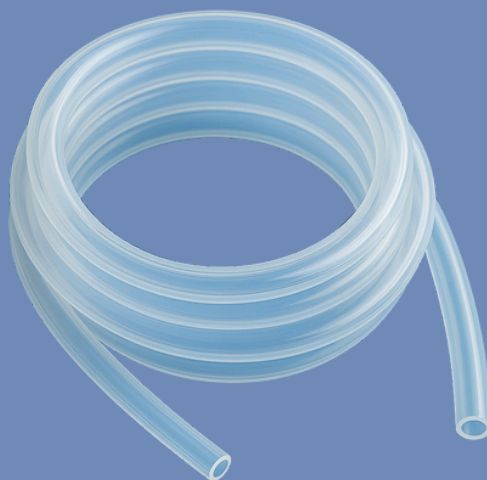
Applications

- Industrial fluid and air transfer
- Automotive auxiliaries and coolant lines
- Machinery lubrication and drainage systems
- Pilot plants and testing equipment

Platinum Cured Silicone Tube

Silicone tubing crafted for high purity applications in medical, pharma, and food industries. Clear, clean, and reliable.

Makvin Polymer's platinum cured silicone tubes are manufactured in a clean and controlled environment to meet the stringent requirements of high-purity applications. These tubes are non-toxic, odorless, and offer excellent biocompatibility — making them the trusted choice in medical, biotech, pharmaceutical, and food-grade fluid transfer.



Key Features

- Ultra-smooth inner surface for minimal particle shedding
- Excellent transparency for visual inspection of flow
- Odorless and non-toxic
- Non-yellowing and chemically stable
- Free from peroxide residues and volatile by-products
- FDA, USP Class VI, and ISO 10993 compliant (upon request)

Applications

- Medical device tubing and catheters
- Biotech fluid handling and sampling lines
- Pharmaceutical filling and transfer systems
- Food and beverage processing
- Laboratory and diagnostic instruments

Dairy Silicone Tube

Silicone tubing made for milk handling and dairy processing. Food safe, flexible, and easy to sterilize. Makvin Polymer's dairy silicone tubes are specially formulated for the rigorous demands of milk handling and dairy processing. These food-grade tubes comply with safety standards to ensure hygienic, odorless, and contamination-free transfer of milk and other dairy products. Designed for repeated sterilization cycles, they maintain flexibility and durability in demanding farm and processing environments.



Key Features

- Food-grade, compliant with FDA standards upon request
- Smooth inner surface for easy cleaning and hygienic flow
- Resistant to repeated sterilization and cleaning cycles
- Flexible yet strong to resist kinks and cracks
- Long-lasting performance in cold and warm conditions
- Odorless and tasteless to preserve product quality

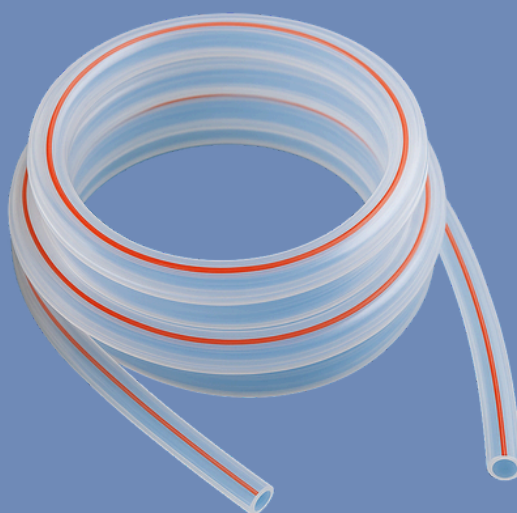
Applications

- Milking machine lines and vacuum transfer
- Dairy processing plants
- Food and beverage liquid transfer
- Hygienic fluid handling systems

Bi Color Silicone Tube

Silicone tubing with straight-line color stripes for quick and easy fluid line identification. Durable, hygienic, and versatile for industrial and medical applications.

Bi Color Silicone Tubes are precision-engineered silicone tubes featuring a single straight-line colored stripe running along their length. This simple yet effective design helps quickly identify and distinguish different fluid or gas lines in complex systems without compromising the tube's flexibility, durability, or cleanliness.



Key Features

- Color Identification Stripe – Available in a variety of colors such as red, blue, yellow, and green for quick recognition.
- Premium Silicone Material – Made from high-purity silicone for long-lasting performance in demanding environments.
- Non-Reactive & Odorless – Chemically inert and resistant to most fluids, making it suitable for medical, pharmaceutical, food-grade, and industrial applications.
- Temperature Stability – Performs reliably across a wide temperature range from -60°C to +200°C
- Customizable Options – Available in multiple inner/outer diameters, wall thicknesses, and color combinations.

Applications

- Medical devices and laboratory setups for line differentiation
- Food and beverage production lines
- Pharmaceutical fluid transfer
- Industrial machinery and automation systems
- Aquatic and water filtration systems

Benefits

- Prevents cross-contamination by ensuring correct line identification
- Speeds up maintenance and troubleshooting
- Enhances operational safety and efficiency
- Clean, professional appearance for equipment and installations

Anti Static Silicone Tube

Silicone tubing with anti static properties to safely handle powders, chemicals, and electronics.

Anti-Static Silicone Tubes are engineered to prevent the build-up of static electricity, ensuring safe transfer and handling of sensitive materials such as powders, flammable chemicals, or electronics. By incorporating conductive additives into high-quality silicone, these tubes effectively dissipate electrostatic charges without compromising the inherent flexibility, purity, and durability of silicone.



Key Features

- Static Dissipation – Prevents electrostatic discharge (ESD) for enhanced safety in powder handling, solvent transfer, and electronics manufacturing.
- Flexible & Durable – Maintains excellent elasticity and resilience even after repeated use or exposure to temperature extremes.
- Temperature Resistance – Performs reliably from -60°C to +200°C without cracking or deformation.
- Chemical Compatibility – Resistant to a wide range of chemicals, solvents, and cleaning agents.
- Non-Contaminating – Suitable for sensitive production environments such as pharmaceutical cleanrooms and electronics assembly lines.

Applications

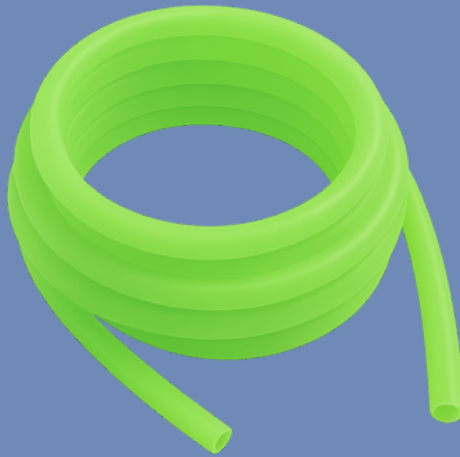
- Powder Transfer Lines – Safely convey powders in pharmaceutical, food, and chemical industries without risk of ignition or contamination.
- Electronics Manufacturing – Prevent ESD damage during assembly or transfer of components.
- Solvent & Chemical Transfer – Used in environments where static build-up can cause operational hazards.
- Cleanroom Equipment – Integrated into controlled environments where purity and safety are essential.

Advantages

- Custom Formulations – Tailored conductivity levels to meet your specific safety standards.
- Precision Manufacturing – Uniform inner and outer diameters for smooth, efficient flow.
- Compliance Ready – Can be manufactured to meet FDA, USP Class VI, and other relevant standards.
- Color-Coding Options – Available in standard or bi-color designs for quick identification.

Fluorescent Silicone Tube

Silicone tubing with bright, UV visible colors for easy detection and visual safety in sensitive environments. Fluorescent Silicone Tubes are designed with high-visibility pigments that glow under UV light, ensuring quick detection and enhanced safety in critical applications. These tubes combine the premium flexibility, durability, and chemical resistance of silicone with the added advantage of bright, attention-grabbing colors. Ideal for environments where visibility is crucial, these tubes help prevent line mix-ups and improve operational safety.



Key Features

- High Visibility Colors – Available in vibrant fluorescent shades for quick identification.
- UV Reactive – Glows brightly under ultraviolet light for visual inspections and leak detection.
- Premium Silicone Properties – Retains flexibility and performance over a wide temperature range.
- Durable & Resilient – Resistant to kinking, tearing, and cracking even under prolonged use.

Applications

- Safety & Maintenance – UV detection of leaks or misplaced tubing in low-light environments.
- Industrial Use – High visibility in busy production floors to reduce accidents.

Technical Specifications

ID (mm)	OD(mm)	Thickness (mm)	Peroxide	Platinum	Dairy	Bi color	Anti Static	Fluorescent
0.4	3.6	1.6	401-0120-004016	402-0120-004016	403-0120-004016	404-0120-004016	405-0120-004016	406-0120-004016
0.4	5.2	2.4	401-0253-004024	402-0253-004024	403-0253-004024	404-0253-004024	405-0253-004024	406-0253-004024
0.8	4	1.6	401-0145-008016	402-0145-008016	403-0145-008016	404-0145-008016	405-0145-008016	406-0145-008016
0.8	5.56	2.38	401-0285-008024	402-0285-008024	403-0285-008024	404-0285-008024	405-0285-008024	406-0285-008024
1.2	4.4	1.6	401-0169-012016	402-0169-012016	403-0169-012016	404-0169-012016	405-0169-012016	406-0169-012016
1.6	3.2	0.8	401-0072-016008	402-0072-016008	403-0072-016008	404-0072-016008	405-0072-016008	406-0072-016008
1.6	5.2	1.8	401-0230-016018	402-0230-016018	403-0230-016018	404-0230-016018	405-0230-016018	406-0230-016018
1.6	6.35	2.375	401-0356-016024	402-0356-016024	403-0356-016024	404-0356-016024	405-0356-016024	406-0356-016024
2	3	0.5	401-0047-020005	402-0047-020005	403-0047-020005	404-0047-020005	405-0047-020005	406-0047-020005
2	4	1	401-0113-020010	402-0113-020010	403-0113-020010	404-0113-020010	405-0113-020010	406-0113-020010
2	5	1.5	401-0198-020015	402-0198-020015	403-0198-020015	404-0198-020015	405-0198-020015	406-0198-020015
2	5.2	1.6	401-0217-020016	402-0217-020016	403-0217-020016	404-0217-020016	405-0217-020016	406-0217-020016
2.4	5.6	1.6	401-0241-024016	402-0241-024016	403-0241-024016	404-0241-024016	405-0241-024016	406-0241-024016
3	4	0.5	401-0066-030005	402-0066-030005	403-0066-030005	404-0066-030005	405-0066-030005	406-0066-030005
3	5	1	401-0151-030010	402-0151-030010	403-0151-030010	404-0151-030010	405-0151-030010	406-0151-030010
3	6	1.5	401-0255-030015	402-0255-030015	403-0255-030015	404-0255-030015	405-0255-030015	406-0255-030015
3.2	6.35	1.575	401-0284-032016	402-0284-032016	403-0284-032016	404-0284-032016	405-0284-032016	406-0284-032016
3.2	7.2	2	401-0392-032020	402-0392-032020	403-0392-032020	404-0392-032020	405-0392-032020	406-0392-032020
3.2	8	2.4	401-0507-032024	402-0507-032024	403-0507-032024	404-0507-032024	405-0507-032024	406-0507-032024
4	5	0.5	401-0085-040005	402-0085-040005	403-0085-040005	404-0085-040005	405-0085-040005	406-0085-040005
4	6	1	401-0188-040010	402-0188-040010	403-0188-040010	404-0188-040010	405-0188-040010	406-0188-040010
4	8	2	401-0452-040020	402-0452-040020	403-0452-040020	404-0452-040020	405-0452-040020	406-0452-040020
4	9.1	2.55	401-0629 -040026	402-0629 -040026	403-0629 -040026	404-0629 -040026	405-0629 -040026	406-0629 -040026
4	10	3	401-0792-040030	402-0792-040030	403-0792-040030	404-0792-040030	405-0792-040030	406-0792-040030
4.8	8	1.6	401-0386-048016	402-0386-048016	403-0386-048016	404-0386-048016	405-0386-048016	406-0386-048016
4.8	9.5	2.35	401-0633-048024	402-0633-048024	403-0633-048024	404-0633-048024	405-0633-048024	406-0633-048024
5	6	0.5	401-0104-050005	402-0104-050005	403-0104-050005	404-0104-050005	405-0104-050005	406-0104-050005
5.2	8	1.4	401-0348-052014	402-0348-052014	403-0348-052014	404-0348-052014	405-0348-052014	406-0348-052014
5.2	9.1	1.95	401-0526-052020	402-0526-052020	403-0526-052020	404-0526-052020	405-0526-052020	406-0526-052020
5.2	10	2.4	401-0688-052024	402-0688-052024	403-0688-052024	404-0688-052024	405-0688-052024	406-0688-052024
5.2	11.1	2.95	401-0906-052030	402-0906-052030	403-0906-052030	404-0906-052030	405-0906-052030	406-0906-052030
6	7	0.5	401-0122-060005	402-0122-060005	403-0122-060005	404-0122-060005	405-0122-060005	406-0122-060005
6	8	1	401-0264-060010	402-0264-060010	403-0264-060010	404-0264-060010	405-0264-060010	406-0264-060010
6	9	1.5	401-0424-060015	402-0424-060015	403-0424-060015	404-0424-060015	405-0424-060015	406-0424-060015
6	9.1	1.55	401-0441-060016	402-0441-060016	403-0441-060016	404-0441-060016	405-0441-060016	406-0441-060016
6	10	2	401-0603-060020	402-0603-060020	403-0603-060020	404-0603-060020	405-0603-060020	406-0603-060020
6	11.1	2.55	401-0822-060026	402-0822-060026	403-0822-060026	404-0822-060026	405-0822-060026	406-0822-060026
6	12	3	401-1018-060030	402-1018-060030	403-1018-060030	404-1018-060030	405-1018-060030	406-1018-060030
6.35	9.5	1.575	401-0471-064016	402-0471-064016	403-0471-064016	404-0471-064016	405-0471-064016	406-0471-064016
6.35	11.1	2.375	401-0781-064024	402-0781-064024	403-0781-064024	404-0781-064024	405-0781-064024	406-0781-064024
6.35	12.7	3.175	401-1140-064032	402-1140-064032	403-1140-064032	404-1140-064032	405-1140-064032	406-1140-064032
7	10	1.5	401-0481-070015	402-0481-070015	403-0481-070015	404-0481-070015	405-0481-070015	406-0481-070015
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8	11	1.5	401-0537-080015	402-0537-080015	403-0537-080015	404-0537-080015	405-0537-080015	406-0537-080015
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8	12.7	2.35	401-0917-080024	402-0917-080024	403-0917-080024	404-0917-080024	405-0917-080024	406-0917-080024
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9.1	16	3.45	401-1632-091035	402-1632-091035	403-1632-091035	404-1632-091035	405-1632-091035	406-1632-091035
9.5	12.7	1.6	401-0670-095016	402-0670-095016	403-0670-095016	404-0670-095016	405-0670-095016	406-0670-095016
9.5	14	2.25	401-0997-095023	402-0997-095023	403-0997-095023	404-0997-095023	405-0997-095023	406-0997-095023
9.5	16	3.25	401-1562-095033	402-1562-095033	403-1562-095033	404-1562-095033	405-1562-095033	406-1562-095033
9.5	19	4.75	401-2552-095048	402-2552-095048	403-2552-095048	404-2552-095048	405-2552-095048	406-2552-095048
10	12	1	401-0415-100010	402-0415-100010	403-0415-100010	404-0415-100010	405-0415-100010	406-0415-100010
10	13.8	1.9	401-0852-100019	402-0852-100019	403-0852-100019	404-0852-100019	405-0852-100019	406-0852-100019
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10	16	3	401-1470-100030	402-1470-100030	403-1470-100030	404-1470-100030	405-1470-100030	406-1470-100030
10	17.85	3.925	401-2061-100039	402-2061-100039	403-2061-100039	404-2061-100039	405-2061-100039	406-2061-100039
10	18	4	401-2111-100040	402-2111-100040	403-2111-100040	404-2111-100040	405-2111-100040	406-2111-100040
12	14	1	401-0490-120010	402-0490-120010	403-0490-120010	404-0490-120010	405-0490-120010	406-0490-120010
12	16	2	401-1056-120020	402-1056-120020	403-1056-120020	404-1056-120020	405-1056-120020	406-1056-120020
12	17.85	2.925	401-1646-120029	402-1646-120029	403-1646-120029	404-1646-120029	405-1646-120029	406-1646-120029
12	18	3	401-1697-120030	402-1697-120030	403-1697-120030	404-1697-120030	405-1697-120030	406-1697-120030
12	19.85	3.925	401-2356-120039	402-2356-120039	403-2356-120039	404-2356-120039	405-2356-120039	406-2356-120039
12.7	17.5	2.4	401-1366-127024	402-1366-127024	403-1366-127024	404-1366-127024	405-1366-127024	406-1366-127024
12.7	19	3.15	401-1882-127032	402-1882-127032	403-1882-127032	404-1882-127032	405-1882-127032	406-1882-127032
12.7	22.2	4.75	401-3125-127048	402-3125-127048	403-3125-127048	404-3125-127048	405-3125-127048	406-3125-127048
12.7	25.4	6.35	401-4560-127064	402-4560-127064	403-4560-127064	404-4560-127064	405-4560-127064	406-4560-127064
15	21	3	401-2036-150030	402-2036-150030	403-2036-150030	404-2036-150030	405-2036-150030	406-2036-150030
16	22.2	3.1	401-2232-160031	402-2232-160031	403-2232-160031	404-2232-160031	405-2232-160031	406-2232-160031
16	23.8	3.9	401-2926-160039	402-2926-160039	403-2926-160039	404-2926-160039	405-2926-160039	406-2926-160039
16	25.4	4.7	401-3668-160047	402-3668-160047	403-3668-160047	404-3668-160047	405-3668-160047	406-3668-160047
16	30	7	401-6070-160070	402-6070-160070	403-6070-160070	404-6070-160070	405-6070-160070	406-6070-160070
19	25.4	3.2	401-2678-190032	402-2678-190032	403-2678-190032	404-2678-190032	405-2678-190032	406-2678-190032
19	27	4	401-3468-190040	402-3468-190040	403-3468-190040	404-3468-190040	405-3468-190040	406-3468-190040
19	28.5	4.75	401-4253-190048	402-4253-190048	403-4253-190048	404-4253-190048	405-4253-190048	406-4253-190048
19	31.7	6.35	401-6069-190064	402-6069-190064	403-6069-190064	404-6069-190064	405-6069-190064	406-6069-190064
25	30.9	2.95	401-3108-250030	402-3108-250030	403-3108-250030	404-3108-250030	405-3108-250030	406-3108-250030
25	34.9	4.95	401-5589-250050	402-5589-250050	403-5589-250050	404-5589-250050	405-5589-250050	406-5589-250050
25	36.9	5.95	401-6942-250060	402-6942-250060	403-6942-250060	404-6942-250060	405-6942-250060	406-6942-250060
25.4	28.75	1.675	401-1710-254017	402-1710-254017	403-1710-254017	404-1710-		

Hoses

PE Braided Silicone Hose

Silicone hose reinforced with polyester braid for improved pressure resistance and moderate flexibility. Suitable for general fluid transfer. Our Platinum Cured Silicone Hoses with Polyester Braiding are designed for applications where cleanliness, durability, and consistent performance are essential. The platinum curing process ensures an odorless, non-toxic, and high-purity hose, while the embedded polyester braid provides enhanced working pressure and dimensional stability without sacrificing flexibility.



Key Features

- Platinum-Cured Silicone – Ensures ultra-pure, odorless, and non-reactive performance.
- Polyester Braid Reinforcement – Improves pressure capacity and maintains structural integrity.
- Excellent Temperature Range – Performs reliably from -60°C to $+200^{\circ}\text{C}$.
- Food & Pharma Safe – Meets FDA and USP Class VI compliance.
- Weather & UV Resistant – Long service life in demanding environments.

Applications

- Food and beverage fluid transfer lines
- Pharmaceutical production lines
- Laboratory and biotech use
- General low to medium-pressure fluid transfer

Technical Specifications

SIZE in MM	Size (in inch)	Max. Working Pressure (Bar)	Min. Burst Pressure (Bar)	Min. Bend Radius (MM)	Vacuum Value in MM HG
6x13	1/4	10.5	31	45	NA
9x16	11/32"	9.5	28	45	NA
12x20	1/2"	7.75	22	75	NA
16x24	5/8"	7.5	22	85	NA
19x27	3/4"	6.5	19	105	NA
25x35	1"	5	13	155	NA
32x42	1 1/4"	4	10	195	NA
37x47	1 1/2"	3.5	9	C/P	NA
50x62	2	3	5	C/P	NA
64x76	2 1/2"	2.5	4	C/P	NA
75x87	3"	2	3.5	C/P	NA
100x112	4"	1.5	3	C/P	NA
100x112	4"	1.5	3	C/P	NA

Note : C/P indicates custom parameter upon request.

SS 316L Helical Wire Reinforced Silicone Hose

Silicone hose with 316L stainless steel wire for high vacuum and pressure use. Designed to bend minimally and maintain shape under stress.

Our Platinum Cured Silicone Hose reinforced with SS 316L Helical Wire is engineered for demanding applications requiring both high pressure resistance and vacuum capability. The platinum curing process ensures exceptional purity, while the embedded stainless steel wire provides outstanding strength, dimensional stability, and kink resistance.



Key Features

- Platinum-Cured Silicone – Ultra-pure, odorless, and inert.
- SS 316L Helical Wire Reinforcement – Enhances structural strength, vacuum rating, and flexibility without collapse.
- High Vacuum Capability – Up to 780 mm Hg (size dependent).
- Excellent Temperature Range – From -60°C to +200°C.
- Corrosion-Resistant – 316L stainless steel wire ensures long life in aggressive environments.
- Food & Pharma Safe – Meets FDA and USP Class VI compliance.

Applications

- High-vacuum fluid transfer systems
- Pharmaceutical production lines
- Food and beverage suction and discharge
- Chemical transfer where flexibility and strength are critical

Technical Specifications

SIZE in MM	Size (in inch)	Max. Working Pressure (Bar)	Min. Burst Pressure (Bar)	Min. Bend Radius (MM)	Vacuum Value in MM HG
6x13	1/4	13	49	45	780
9x16	11/32"	12	49	55	780
12x20	1/2"	11.5	49	65	780
16x24	5/8"	11	36	75	780
19x27	3/4"	9.5	31	85	780
25x35	1"	9	31	120	780
32x42	1 1/4"	8.5	28	135	780
37x47	1 1/2"	8	26	165	520
50x62	2	6.5	23	235	410
64x76	2 1/2"	4.5	20.5	380	390
75x87	3"	3.5	16	C/P	C/P
100x112	4"	2.5	10.5	C/P	C/P

Note : C/P indicates custom parameter upon request.

PE Braided + SS 316L Helical Wire Reinforced Silicone Hose

Dual reinforced hose with Polyester braid and SS wire built for pressure and vacuum lines where structural stability is key.

This Platinum Cured Silicone Hose is built for applications that demand both high pressure resistance and vacuum capability while maintaining excellent structural stability. The polyester braid provides exceptional burst strength, and the SS 316L helical wire prevents kinking and collapse under suction. Together, they create a rugged, long-lasting solution for dynamic and static installations.

Product Under Development

Key Features

- Dual Reinforcement – Polyester braid for burst resistance + SS 316L wire for vacuum stability.
- Platinum-Cured Silicone – Ultra-pure, inert, odorless, and compliant with FDA & USP Class VI.
- High Vacuum Capability – Up to 780 mm Hg (size dependent).
- Excellent Temperature Range – -60°C to +200°C.
- Corrosion-Resistant Construction – 316L stainless steel wire withstands aggressive environments.
- Kink & Collapse Resistant – Maintains shape even under bending and vacuum load.

Applications

- Pharmaceutical and biotech transfer lines
- High-pressure and high-vacuum process applications
- Food and beverage suction and discharge
- Chemical handling where flexibility and durability are essential

Technical Specifications

SIZE in MM	Size (in inch)	Max. Working Pressure (Bar)	Min. Burst Pressure (Bar)	Min. Bend Radius (MM)	Vacuum Value in MM HG
6x13	1/4	13.5	49.5	45	780
9x16	11/32"	13.5	49.5	55	780
12x20	1/2"	12	46.5	65	780
16x24	5/8"	11.5	36.5	75	780
19x27	3/4"	10.5	31.5	85	780
25x35	1"	10	31.5	120	780
32x42	1 1/4"	9	28.5	135	520
37x47	1 1/2"	8.5	26.5	165	520
50x62	2	7	23.5	235	410
64x76	2 1/2"	5	21	380	390

Note : C/P indicates custom parameter upon request.

3 Plies PE Fabric + SS 316L Helical Wire Reinforced Silicone Hose (Wrap Hose)

Rugged silicone wrap hose with multi-layer fabric and stainless steel helical wire. Built for static, high-pressure setups where minimal bending is required.

The Wrap Hose is engineered with four plies of polyester fabric reinforcement combined with an SS 316L helical wire to provide outstanding strength and durability. Designed for static installations and high-pressure transfer, this hose maintains stability under demanding conditions while offering a long service life.

Product Under Development

Key Features

- Heavy-Duty Reinforcement – 3 plies of PE fabric wrapping for extreme pressure handling.
- Helical Wire Support – Prevents collapse and maintains shape under stress.
- Vacuum-Ready Design – Engineered to withstand high vacuum without collapsing.
- Platinum-Cured Silicone – Ultra-pure, non-toxic, and compliant with FDA & USP Class VI.
- Minimal Flexibility – Built for static or fixed-position use.
- High Temperature Tolerance – From -60°C to $+260^{\circ}\text{C}$.
- Durable & Reliable – Ideal for rugged setups where safety and strength are critical.

Applications

- Static high-pressure transfer systems
- Food and beverage industry (fixed pipelines)
- Chemical plants with heavy-duty transfer lines
- Industrial vacuum equipment
- Industrial environments requiring rugged and long-life hoses

Technical Specifications

SIZE in MM	Size (in inch)	Max. Working Pressure (Bar)	Min. Burst Pressure (Bar)	Min. Bend Radius (MM)	Vacuum Value in MM HG
6x13	1/4	11	32	45	NA
9x16	11/32"	10	29	45	NA
12x20	1/2"	8	23	75	NA
16x24	5/8"	7.75	23	85	NA
19x27	3/4"	6.75	20	105	NA
25x35	1"	5.5	14	155	NA
32x42	1 1/4"	4.5	11	195	NA
37x47	1 1/2"	4	10	C/P	NA
50x62	2	3.5	6	C/P	NA
64x76	2 1/2"	2.75	4.5	C/P	NA

Note : C/P indicates custom parameter upon request.

Fiberglass Fabric + SS 316L Helical Wire Reinforced Silicone Hose (Duct Hose)

Flexible silicone duct hose with fiberglass and stainless steel wire reinforcement, built for hot air transfer and controlled airflow in high-heat environments.

The Duct Hose is specially designed for air transfer and ducting applications in industries where temperature resistance, airflow stability, and structural durability are essential. Built with fiberglass fabric reinforcement and a 316L stainless steel helical wire, this hose maintains its shape under heat while offering controlled flexibility for semi-static installations.

Product Under Development

Key Features

- Air & Gas Transfer – Optimized for ducting, ventilation, and controlled airflow lines.
- Fiberglass Reinforcement – Provides high heat resistance and added strength.
- SS 316L Helical Wire Support – Prevents collapse and ensures hose integrity under stress.
- Semi-Flexible Design – Allows minimal bending while maintaining airflow stability.
- High Temperature Endurance – Operates reliably from -60°C to +260°C.
- Clean & Compliant – Manufactured from platinum-cured silicone, FDA & USP Class VI approved.

Applications

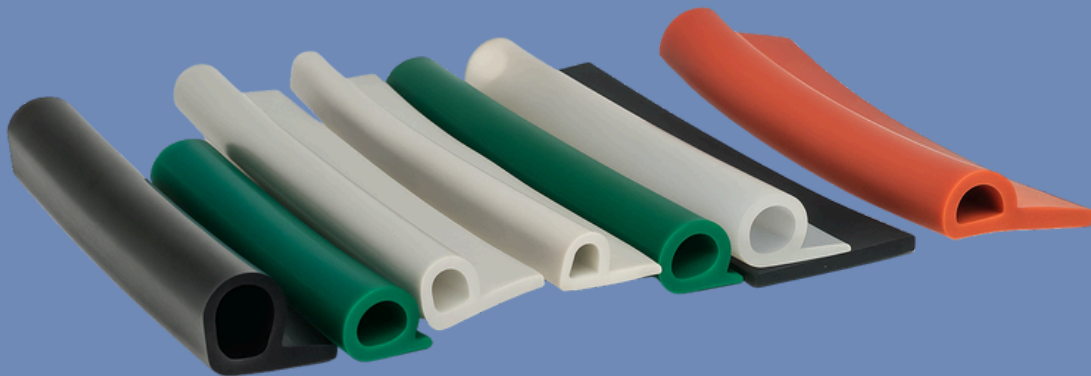
- Hot air and exhaust ducting
- Ventilation and fume handling systems
- Pharma and biotech air transfer lines
- Cleanroom HVAC duct hoses
- Industrial hot airflow management

Technical Specifications

SIZE in MM	Size (in inch)	Max. Working Pressure (Bar)	Min. Burst Pressure (Bar)	Min. Bend Radius (MM)	Vacuum Value in MM HG
6x13	1/4	11	32	45	NA
9x16	11/32"	10	29	45	NA
12x20	1/2"	8	23	75	NA
16x24	5/8"	7.75	23	85	NA
19x27	3/4"	6.75	20	105	NA
25x35	1"	5.5	14	155	NA
32x42	1 1/4"	4.5	11	195	NA
37x47	1 1/2"	4	10	C/P	NA
50x62	2	3.5	6	C/P	NA
64x76	2 1/2"	2.75	4.5	C/P	NA

Solid Silicone Profile

Makvin Polymer manufactures a wide range of solid silicone profiles designed for sealing, insulation, and gasketing applications across industries. Produced using high-quality silicone elastomers, these profiles deliver long-lasting performance, excellent temperature resistance, and reliable mechanical strength. Available in various shapes like strips, cords, squares, and custom cross-sections, our solid silicone profiles are built to provide consistent results even in challenging environments.



Key Features

- Temperature Resistance – Performs reliably from -60°C to $+260^{\circ}\text{C}$.
- Durable & Resilient – Strong mechanical properties for repeated compression and use.
- Weather & Ozone Resistant – Withstands outdoor conditions without degradation.
- Versatile Shapes – Available in cord, strip, square, rectangle, or tailor-made profiles.
- Food & Pharma Grade Options – Platinum-cured versions available for hygiene-sensitive industries.
- Customizable – Can be supplied in continuous lengths, cut pieces, or joints depending on application.

Applications

- General industrial sealing and gasketing
- Oven and high-temperature equipment seals
- Electrical enclosures and panel doors
- Lighting fixtures and weatherproof sealing
- Medical and healthcare equipment (with platinum-cured grades)
- Aerospace, automotive, and railways for insulation and vibration control

Sponge Silicone Profile

Makvin Polymer manufactures sponge silicone profiles designed for applications that require soft cushioning, compressibility, and lightweight sealing. Unlike solid profiles, sponge silicone has a closed-cell structure, which makes it an excellent choice for sealing against air, dust, and moisture while reducing vibration and noise. Available in various shapes such as cords, strips, gaskets, and custom sections, our sponge silicone profiles deliver dependable performance in both indoor and outdoor environments



Key Features

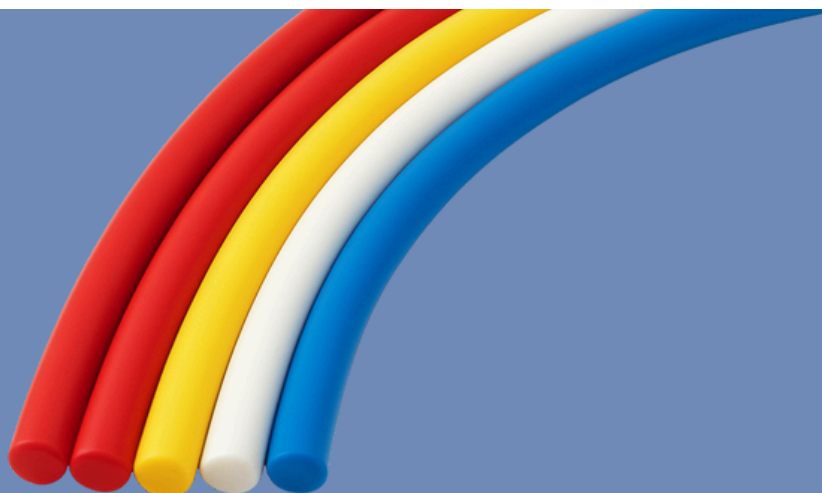
- Resistant to moderate heat, ozone, and UV
- Cost-effective solution for general use
- Strong mechanical properties for demanding environments
- Available in custom sizes and colors
- Long-lasting under standard industrial

Applications

- Door and hatch seals (industrial, automotive, marine)
- Electrical and electronic enclosures
- HVAC and air handling units
- Vibration dampening pads and isolators
- Lighting and outdoor equipment sealing
- General gasketing in environments requiring soft compression

Silicone Cord

Makvin Polymer offers a wide range of silicone cords designed for sealing, gasketing, and insulation applications. Manufactured using high-quality silicone elastomers, these cords are available in various diameters, colors, and hardness options to meet diverse industry needs. Whether for industrial, medical, or engineering applications, silicone cords deliver flexibility, durability, and long service life.



Key Features

- Excellent Temperature Resistance – Performs consistently from -60°C to $+260^{\circ}\text{C}$.
- High Flexibility & Elasticity – Adapts easily to sealing grooves and circular fittings.
- Durable & Long-Lasting – Resistant to wear, weather, and ozone exposure.
- Food & Pharma Grade Options – Platinum-cured cords available for hygienic environments.
- Custom Sizes & Colors – Supplied in standard diameters or tailored to your requirements.
- Easy Fabrication – Can be jointed into O-rings, gaskets, or continuous seals upon request.

Applications

- Static and dynamic sealing (as O-rings and gaskets)
- Door and lid sealing for ovens, autoclaves, and chambers
- Electrical and electronic equipment insulation
- Food and pharmaceutical processing equipment (platinum-cured grades)
- Aerospace, defense, and automotive engineering
- General industrial sealing against air, dust, and fluids

Silicone Sleeve

At Makvin Polymer, we design and manufacture high-performance silicone sleeves that deliver reliability, durability, and flexibility across industries. From electrical insulation to industrial protection and film treatment systems, our sleeves are trusted for their quality and consistency.

What makes our sleeves unique is the ability to customize them with application-specific properties—whether you need electrical insulation, resistance to high heat, oils, and solvents, or special dielectric performance, we engineer the right sleeve for your requirement.



Key Features

- Resistant to moderate heat, ozone, and UV
- Cost-effective solution for general use
- Strong mechanical properties for demanding environments
- Available in custom sizes and colors
- Long-lasting under standard industrial environment

Applications

- Electrical wire and cable insulation
- Protective covering for industrial rollers and rods
- Heat- and solvent-resistant sleeves for machinery and engineering systems
- High-temperature masking and protective applications
- Plastic film treatment (BOPP, PET, PE, PVC, etc.)
- Printing, packaging, and laminating industries
- Flexible laminates and adhesive coating systems
- Surface modification for better ink and adhesive adhesion
- Specialized corona discharge and treater units

Silicone Sheet

Makvin Polymer offers a wide range of silicone rubber sheets designed to perform in demanding environments. Known for their durability, flexibility, and resistance to extreme conditions, our sheets are widely used across industries including electrical, medical, food, automotive, and engineering. We provide sheets in solid, sponge, and fabric-reinforced grades, ensuring that you get the right balance of performance and cost-effectiveness for your application.



Key Features

- Wide Temperature Range – Performs reliably between -60°C to $+200^{\circ}\text{C}$.
- Excellent Weather & Ozone Resistance – Ideal for outdoor and long-term applications.
- Food & Medical Grade Options – Safe for contact with consumables and sensitive processes.
- High Dielectric Strength – Perfect for electrical insulation needs.
- Compression Set Resistance – Maintains shape and elasticity under stress.
- Customizable Options – Available in different thicknesses, hardness, and colors.

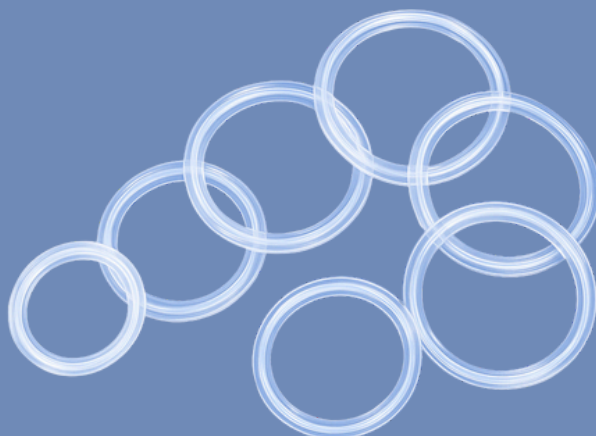
Applications

- Gaskets and seals in industrial equipment
- Electrical insulation pads and barriers
- Vibration dampening and cushioning
- Heat-resistant lining for ovens and machinery
- Food and pharma processing surfaces
- Automotive and aerospace insulation layers
- Membranes, diaphragms, and protective barriers

Tri Clover Gasket

Makvin Polymer manufactures high-quality Tri Clover (Tri-Clamp) gaskets designed for secure and hygienic connections in pipelines and process systems. These gaskets are widely used in food, beverage, pharmaceutical, and biotech industries, where cleanliness, leak-proof performance, and reliability are critical.

Our Tri Clover gaskets are made from premium-grade silicone and are also available in other elastomers (EPDM, Viton, PTFE, Nitrile) depending on application needs.



Key Features

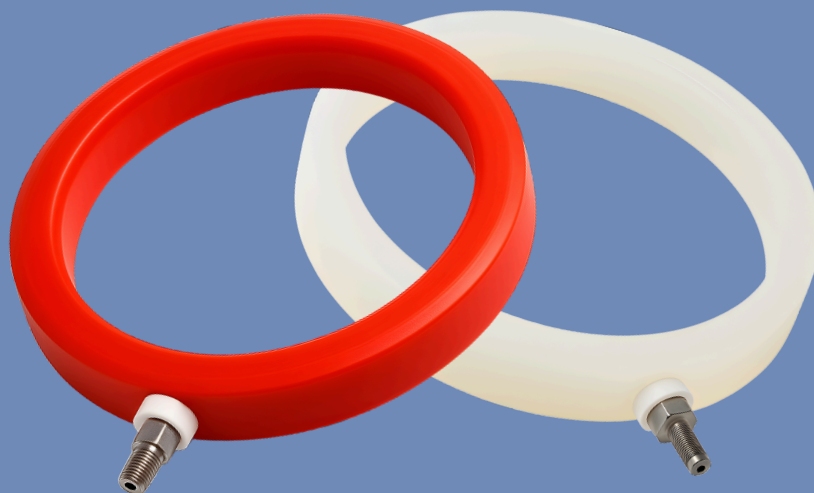
- Wide Temperature Range – Reliable sealing from -60°C to $+260^{\circ}\text{C}$
- Hygienic & Non-Toxic – FDA-compliant silicone available for food, pharma, and biotech use
- Leak-Proof Performance – Ensures tight and secure clamping in pipelines
- Leak-Proof Performance – Ensures tight and secure clamping in pipelines
- Variety of Sizes – Compatible with standard Tri Clover ferrules and fittings
- Customization Options – Available in different hardness, colors, and elastomer grades

Applications

- Dairy, beverage, and brewing industries
- Pharmaceutical and biotech processing lines
- Food processing equipment and filling machines
- Cosmetic and personal care manufacturing
- Chemical and sanitary pipeline systems

Inflatable Silicone Gasket

Our inflatable gaskets are widely used in Fluid Bed Dryers (FBDs), commonly found in pharmaceutical and chemical processing industries. In pharmaceutical granulation and drying processes, where consistent air flow and strict contamination control are required. Our FBD gaskets do not fail due to powder leakage or inability to withstand repeated sterilization cycles as traditional gaskets.



Makvin Polymer's inflatable silicone FBD gaskets solve these problems by offering:

- 100% Leak-Proof Sealing– Prevents powder loss and contamination during drying and granulation.
- Easy Operation– Expands and retracts with simple air pressure, ensuring quick setup and release.
- Temperature & Pressure Resistance– Operates safely up to 260°C and withstands pressures beyond 5 Kg/cm² (custom designs available).
- CIP & SIP Compatible– Withstands repeated sterilization and cleaning cycles.

Key Features

- Made from FDA & USP Class VI compliant silicone
- Available in various profiles, sizes, and hardness options
- Resistant to heat, steam, solvents, and cleaning agents
- Can be custom-engineered for pharma, biotech, food, and chemical industries
- Supplied in continuous lengths, vulcanized rings, or fitted designs

Applications

- Fluid Bed Dryers (FBDs) – Powder drying and granulation in pharma plants
- Isolators & Glove Boxes – Sterile sealing environments
- Autoclaves & Sterilizers – High-heat and high-pressure chambers
- Industrial Processing Equipment – Powder, liquid, and chemical handling systems
- Food & Beverage Equipment – Hygienic sealing in mixing and processing units

Silicone Bellow

Makvin Polymer manufactures high-quality silicone bellows designed to provide flexibility, protection, and sealing in a wide range of applications. These bellows absorb movement, vibration, and misalignment while ensuring a hygienic, leak-proof connection.

Made from platinum-cured silicone or industrial-grade silicone, our bellows deliver long-lasting performance in both critical pharmaceutical systems and industrial machinery.



Key Features

- High Flexibility – Designed to handle axial, lateral, and angular movements.
- Hygienic & Non-Toxic – FDA & USP Class VI compliant versions for pharma and food use.
- Easy to Install – Lightweight and adaptable to different pipeline or equipment connections.
- Customizable – Available in different sizes, wall thicknesses, and hardness levels.

Applications

- Pharmaceutical & Biotech Equipment – Used in granulators, dryers, and process vessels for hygienic sealing.
- Food & Beverage Processing – Provides safe and flexible connections in pipelines and mixers.
- Industrial Machinery – Protects moving parts and absorbs vibration.
- HVAC & Duct Systems – Allows for thermal expansion and movement without leaks.
- Dust & Particle Protection – Prevents ingress into sensitive components.

Silicone Diaphragm

Makvin Polymer manufactures high-performance silicone diaphragms designed to provide flexible, hygienic, and leak-proof sealing in critical process equipment. These diaphragms are made from platinum-cured or peroxide-cured silicone, depending on application needs, and are engineered to deliver reliable performance in both static and dynamic sealing applications.

In industries like pharmaceuticals, biotech, food processing, and engineering, silicone diaphragms are essential for maintaining contamination-free operations and ensuring safe, sterile product handling.



Key Features

- High Flexibility – Performs under repeated compression and flexing without losing integrity.
- Wide Temperature Range – Operates reliably from -60°C to $+260^{\circ}\text{C}$.
- Hygienic & Safe – Available in FDA & USP Class VI compliant grades for pharma and food use.
- Chemical Resistance – Withstands cleaning agents, solvents, and steam sterilization.
- Durable – Resistant to wear, tearing, and cracking under long-term use.
- Customizable – Available in various sizes, thicknesses, and hardness options.

Applications

- Pharmaceutical & Biotech – Used in diaphragm valves, pumps, and Fluid Bed Dryers (FBDs).
- Food & Beverage Industry – Hygienic sealing in mixing, filling, and dispensing equipment.
- Medical Equipment – In devices requiring sterile, flexible sealing components.
- Industrial Applications – Actuators, regulators, and pumps where precision sealing is critical.
- Cleanroom Systems – CIP/SIP-compatible diaphragms for contamination-free environments.

Silicone Stopper

Silicone Stoppers designed for reliable, flexible, and durable sealing performance. Resistant to high temperatures, chemicals, and wear—ideal for pharmaceutical, food, and industrial applications.



Key Features

- High Flexibility – Performs under repeated compression and flexing without losing integrity.
- Wide Temperature Range – Operates reliably from -60°C to $+260^{\circ}\text{C}$.
- Hygienic & Safe – Available in FDA & USP Class VI compliant grades for pharma and food use.
- Chemical Resistance – Withstands cleaning agents, solvents, and steam sterilization.
- Durable – Resistant to wear, tearing, and cracking under long-term use.
- Customizable – Available in various sizes, thicknesses, and hardness options.

Applications

- Pharmaceutical & Biotech – Used in diaphragm valves, pumps, and Fluid Bed Dryers (FBDs).
- Food & Beverage Industry – Hygienic sealing in mixing, filling, and dispensing equipment.
- Medical Equipment – In devices requiring sterile, flexible sealing components.
- Industrial Applications – Actuators, regulators, and pumps where precision sealing is critical.
- Cleanroom Systems – CIP/SIP-compatible diaphragms for contamination-free environments.

Silicone O-Ring

Makvin Polymer manufactures high-quality silicone O-rings designed to provide reliable sealing in a wide range of industries. Made from premium-grade platinum-cured or peroxide-cured silicone, our O-rings are valued for their flexibility, chemical resistance, and wide temperature stability. Available in standard and custom sizes, Makvin Polymer O-rings ensure leak-proof performance in both static and dynamic sealing applications, from pharmaceutical equipment to industrial machinery.



Key Features

- Wide Temperature Range – Performs from -60°C to $+260^{\circ}\text{C}$.
- Excellent Flexibility – Maintains sealing integrity under compression and expansion.
- Chemical Resistance – Withstands oils, solvents, and cleaning agents.
- FDA & USP Class VI Compliant – Suitable for food, pharma, and biotech industries.
- Custom Sizes & Hardness – Available in standard AS568 sizes or tailor-made to order.

Applications

- Pharmaceutical & Biotech – Sealing in fluid transfer systems, filters, and dryers.
- Food & Beverage – Hygienic sealing for mixers, filling machines, and storage vessels.
- Medical Equipment – Used in pumps, valves, and diagnostic devices.
- Industrial Machinery – Provides leak-proof sealing in hydraulic and pneumatic systems.
- Electrical & Electronics – Protects against dust, moisture, and contamination.

Customized Silicone Products

At Makvin Polymer, we understand that every industry and application has unique requirements. That's why we specialize in manufacturing customized silicone products, tailored to meet the exact specifications of your process, equipment, or project.

From design and compounding to extrusion, molding, and finishing, we manage the entire production in-house. This allows us to provide fast turnaround, consistent quality, and total flexibility in delivering silicone parts that match your needs.



Key Features

- Custom Shapes & Profiles – Extruded or molded in any cross-section, including solid, sponge, or complex multi-cavity designs.
- Custom Sizes – From micro-dimensions for medical devices to large industrial seals and sleeves.
- Material Customization – Platinum-cured, peroxide-cured, or special formulations for oil, solvent, or chemical resistance.
- Property Enhancements – Options for electrical insulation, flame retardancy, anti-static performance, and high transparency.
- Color Matching – Available in clear, translucent, or customized RAL/Pantone colors for identification or branding.
- Prototype to Production – Small-batch samples and large-scale production runs available.

Applications

- Pharmaceutical & Biotech – Special gaskets, bellows, FBD components, and sterile seals.
- Food & Beverage – Custom tubing, stoppers, and seals for hygienic processing.
- Medical Devices – Tailor-made silicone components for critical applications.
- Industrial & Engineering – High-temperature sleeves, expansion joints, and insulating parts.
- Electronics & Electrical – Custom silicone insulators, stoppers, and anti-static parts.
- Aerospace & Defense – Precision seals and profiles for harsh environments.

INNOVATION. PRECISION. PERFORMANCE.

At Makvin Polymer, we believe great partnerships are built on trust, quality, and innovation.

Every silicone product we craft — from tubing and gaskets to complex custom profiles — represents our dedication to engineering excellence and customer satisfaction.

We take pride in delivering consistent performance, reliable quality, and tailored solutions that empower industries worldwide.

Together, let's build a future shaped by innovation, precision, and performance.

Contact Us

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