



[HOME](#) [SERVICES](#) [PRODUCTS](#) [BLOG](#) [ABOUT](#) [CONTACT US](#)

17 TYPES OF SILICONE: APPLICATIONS, FEATURES, AND TESTS.

☰ Table of Contents

Silicone stands in our world as a force. It is resilient, enduring, and versatile. This material, seen in kitchens and in the vast reaches of space, withstands extremes. Here, we explore 17 types of silicone. Each holds its ground in a different way, serving distinct purposes. We dig in into their features, their applications, and the tests they face. Let us begin.

[CONTACT US](#)

1. Platinum Extrusion General Silicone.

Applications

For extruded products like LED silicone co-extrusion, sleeves, neon strips, tubes, and shaped strips.

Features

Clear, resists yellowing, cures quickly. Surface smooth, bubble-free, cures at right time. Meets ROHS, REACH, FDA standards.

Testing

Platinum curing agent A: 0.5%, B: 1%, at 135°C, 2min, 15Mpa.



Platinum Extrusion General Silicone Technical Data Sheet

Product	Zy-5140	ZY-5150	ZY-5160	ZY-5170	ZY-5180
Appearance	Semi-transparent	Semi-transparent	Semi-transparent	Semi-transparent	Semi-transparent
Plasticity	190	210	240	270	290
Hardness (ShoreA)	40	50	60	70	80
Density (g/cm ³)	1.18	1.19	1.22	1.22	1.25

Product	Zy-5140	ZY-5150	ZY-5160	ZY-5170	ZY-5180
Tensile Strength (Mpa)	7.5	7.5	7	7	7
Elongation (%)	450	350	250	200	150
Tear Strength (KN/m)	20	20	21	20	18

2. High-Transparency Platinum Extrusion General Silicone.

Applications

For high-demand extruded products like LED silicone co-extrusion, sleeves, neon strips, tubes, and shaped strips.

Features

Clear, doesn't yellow, stays bright. Surface smooth, no bubbles, cures correctly. Passed ROHS, REACH, FDA tests.

Testing

Platinum curing agent A: 0.5%, B: 1%, at 135°C for 2min, 15Mpa.



High-Transparency Platinum Extrusion General Silicone Technical Data Sheet

Product	Zy-6130	ZY-6140	ZY-6150	ZY-6160	ZY-6170	ZY-6180
Appearance	Semi-transparent	Semi-transparent	Semi-transparent	Semi-transparent	Semi-transparent	Semi-transparent
Plasticity	150	190	210	240	270	290
Hardness (ShoreA)	30	40	50	60	70	80
Density (g/cm ³)	1.13	1.18	1.19	1.22	1.22	1.25
Tensile Strength (Mpa)	7.5	7.5	7.5	7	7	7
Elongation (%)	550	450	350	250	200	150
Tear Strength (KN/m)	16	20	20	20	16	16

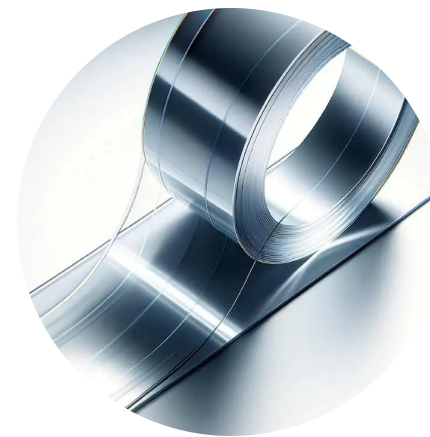
3. High-Transparency Platinum Extrusion Gas-Phase Silicone.

Applications

Customized for clear, high-transparency extruded products like LED silicone sleeves, tubes, and strips.

Features

Exceptionally clear, resists yellowing. Surface bright, no gel or bubbles, cures at the right time. Passed ROHS, REACH, FDA, LFBBG tests.



Testing

Platinum curing agent A: 0.5%, B: 1%, at 135°C for 2min, 15Mpa.

High-Transparency Platinum Extrusion Gas-Phase Silicone Technical Data Sheet

Product	Zy-8530	ZY-8540	ZY-8550	ZY-8560	ZY-8570	ZY-8580
Appearance	Transparent	Transparent	Transparent	Transparent	Transparent	Transparent
Plasticity	160	210	240	280	330	350
Hardness (ShoreA)	30	40	50	60	70	80
Density (g/cm ³)	1.11	1.14	1.17	1.2	1.22	1.25
Tensile Strength (Mpa)	9	10	9	9	8	8

Product	Zy-8530	ZY-8540	ZY-8550	ZY-8560	ZY-8570	ZY-8580
Elongation (%)	600	600	500	480	300	180
Tear Strength (KN/m)	25	30	35	32	30	22

4. Platinum Extrusion Gas-Phase Silicone

Application

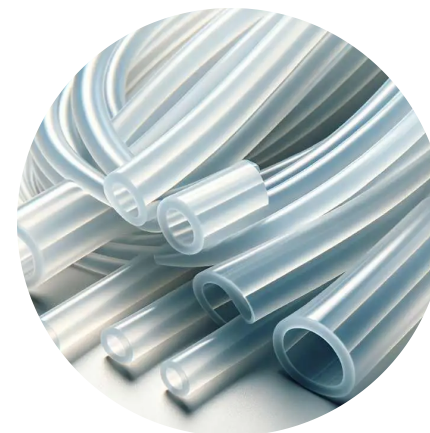
Made for high-demand platinum silicone tubes, shaped strips, and other extruded products

Features

Resists yellowing, stays visually appealing. Surface bright, no gel or bubbles, stores well at room temperature, cures correctly. Passed ROHS, REACH, FDA, LFGB tests.

Testing

Platinum curing agent A: 0.5%, B: 1%, at 135°C for 2min, 15Mpa.



Platinum Extrusion Gas-Phase Silicone Technical Data Sheet

Product	Zy-8130	ZY-8140	ZY-8150	ZY-8160	ZY-8170	ZY-8180
Appearance	Semi-transparent	Semi-transparent	Semi-transparent	Semi-transparent	Semi-transparent	Semi-transparent
Plasticity	180	210	260	240	270	330
Hardness (ShoreA)	30	40	50	60	70	80
Density (g/cm ³)	1.11	1.14	1.17	1.2	1.22	1.25
Tensile Strength (Mpa)	9	10	9	9	8	8
Elongation (%)	600	550	450	350	250	170
Tear Strength (KN/m)	25	30	35	32	30	22

5. General Compression Molding Silicone

Application

For making common accessories, seals, standard-strength silicone products.

Features

Great resilience, ensures strong processing performance.

Testing

50% bisphenol A, added at 1.5%, tested at 175°C for 5min, 15Mpa.



General Compression Molding Silicone Technical Data Sheet

Product	ZY-2120	ZY-2130	ZY-2140	ZY-2150	ZY-2160	ZY-2170	ZY-2180
Appearance	Semi-transparent	Semi-transparent	Semi-transparent	Semi-transparent	Semi-transparent	Semi-transparent	Semi-transparent
Plasticity	120	150	180	220	260	300	350
Hardness (ShoreA)	20	30	40	50	60	70	80
Density (g/cm ³)	1.05	1.1	1.12	1.16	1.19	1.22	1.25
Tensile Strength (Mpa)	4	6	6.5	7.5	7.5	7	7
Elongation (%)	750	650	550	450	400	280	150

Product	ZY-2120	ZY-2130	ZY-2140	ZY-2150	ZY-2160	ZY-2170	ZY-2180
Tear Strength (KN/m)	8	10	10	12	10	10	8

6. High-Strength Compression Molding Silicone

Application

For making complex items like kitchenware, gifts, swimwear.

Features

Fast curing, strong, superior processing.

Testing

50% bisphenol A, 1.5% ratio, tested at 175°C for 5min, 15Mpa.



High-Strength Compression Molding Silicone Technical Data Sheet

Product	ZY-2130A	ZY-2140A	ZY-2150A	ZY-2160A	ZY-2170A	ZY-2180A
Appearance	Semi-transparent	Semi-transparent	Semi-transparent	Semi-transparent	Semi-transparent	Semi-transparent
Plasticity	115	150	205	240	280	320

Product	ZY-2130A	ZY-2140A	ZY-2150A	ZY-2160A	ZY-2170A	ZY-2180A
Hardness (ShoreA)	30	40	50	60	70	80
Density (g/cm ³)	1.1	1.12	1.16	1.19	1.2	1.22
Tensile Strength (Mpa)	7	8	9	8	8	7
Elongation (%)	750	650	550	450	350	150
Tear Strength (KN/m)	16	20	20	20	20	16

7. General Purpose Gas-Phase Silicone

Application

For making sheaths, kitchenware, wallets, watch straps, other common products.

Features

Fast curing, strong, excellent processing.

Testing

50% bisphenol A, 1.5% ratio, tested at 175°C for 5min, 15Mpa.



General Purpose Gas-Phase Silicone Technical Data Sheet

Product	ZY-7120	ZY-7130	ZY-7140	ZY-7150	ZY-7160	ZY-7170	ZY-7180
Appearance	Semi-transparent	Semi-transparent	Semi-transparent	Semi-transparent	Semi-transparent	Semi-transparent	Semi-transparent
Plasticity	130	140	180	210	240	280	310
Hardness (ShoreA)	20	30	40	50	60	70	80
Density (g/cm ³)	1.05	1.08	1.11	1.14	1.17	1.2	1.22
Tensile Strength (Mpa)	7	9	9.5	11	10.5	10.5	9
Elongation (%)	800	900	700	650	600	450	350
Tear Strength (KN/m)	18	18	22	25	30	30	30

8. High Rebound General Silicone

Application

For making seals, gaskets, special parts with high rebound needs.

Features

High rebound, excellent processing.

Testing

50% bisphenol A, 1.5% ratio, tested at 175°C for 5min, 15Mpa.



High Rebound General Silicone Technical Data Sheet

Product	ZY-1130	ZY-1140	ZY-1150	ZY-1160	ZY-1170	ZY-1180
Appearance	Semi-transparent	Semi-transparent	Semi-transparent	Semi-transparent	Semi-transparent	Semi-transparent
Plasticity	115	150	205	240	280	310
Hardness (ShoreA)	30	40	50	60	70	80
Density (g/cm ³)	1.1	1.12	1.16	1.19	1.2	1.22
Tensile Strength (Mpa)	7	7.5	9	8	8	7
Elongation (%)	500	350	300	150	150	100
Tear Strength (KN/m)	16	20	20	18	19	16

9. High Tear-Resistant Gas-Phase Silicone

Application:

Suitable for making high-strength products like automotive accessories and special parts.

Features:

Excellent rebound, outstanding processing performance.

Testing:

Contains 50% bisphenol A, added at a ratio of 1.5%, subjected to 175°C for 5min at 15Mpa.



High Tear-Resistant Gas-Phase Silicone Technical Data Sheet

Product	ZY-7530	ZY-7540	ZY-7550	ZY-7560	ZY-7570	ZY-7580
Appearance	Semi-transparent	Semi-transparent	Semi-transparent	Semi-transparent	Semi-transparent	Semi-transparent
Plasticity	140	180	210	240	280	310
Hardness (ShoreA)	30	40	50	60	70	80
Density (g/cm ³)	1.08	1.11	1.14	1.17	1.2	1.23
Tensile Strength (Mpa)	8	8	9	9	9	9

Product	ZY-7530	ZY-7540	ZY-7550	ZY-7560	ZY-7570	ZY-7580
Elongation (%)	900	750	750	650	600	550
Tear Strength (KN/m)	30	35	45	45	40	36

10. High Rebound Gas-Phase Silicone

Application:

Suitable for making high-end sealing elements, dining mats, sports seat cushions, and other high-rebound products.

Features:

High rebound, outstanding processing performance.

Testing:

Contains 50% bisphenol A, added at a ratio of 1.5%, subjected to 175°C for 5min at 15Mpa.



High Rebound Gas-Phase Silicone Technical Data Sheet

Product	ZY-7830	ZY-7840	ZY-7850	ZY-7860	ZY-7870	ZY-7880
Appearance	Semi-transparent	Semi-transparent	Semi-transparent	Semi-transparent	Semi-transparent	Semi-transparent
Plasticity	140	180	200	230	260	300
Hardness (ShoreA)	30	40	50	60	70	80
Density (g/cm ³)	1.08	1.10	1.13	1.16	1.18	1.2
Tensile Strength (Mpa)	5.5	8	8.5	9	8.5	8
Elongation (%)	550	500	400	300	280	260
Tear Strength (KN/m)	12	20	22	21	21	20

11. Special Hardness Silicone (High Hardness Silicone)

Application:

Suitable for making high-hardness products like foot pads, kitchen utensils, sealing elements, and miscellaneous parts.

Features:

High hardness, good strength.



Testing:

Contains 50% bisphenol A, added at a ratio of 1.5%, subjected to 175°C for 5min at 15Mpa.

Special Hardness Silicone Technical Data Sheet

Product	ZY-1190	ZY-7190	ZY-6190
Appearance	Semi-transparent	Semi-transparent	Semi-transparent
Plasticity	380	340	380
Hardness (ShoreA)	90	90	90
Density (g/cm ³)	1.25	1.3	1.3
Tensile Strength (Mpa)	7	7	5
Elongation (%)	80	80	40
Tear Strength (KN/m)	20	20	10

12. High-Transparency Gas-Phase Silicone

Application:

Suitable for making pacifiers, highly transparent miscellaneous parts, and transparent medical and sanitary products.

Features:

High transparency, high strength, excellent processing performance.

Testing:

Contains 50% bisphenol A, added at a ratio of 1.5%, subjected to 175°C for 5min at 15Mpa.

**High-Transparency Gas-Phase Silicone Technical Data Sheet**

Product	ZY-7920	ZY-7930	ZY-7940	ZY-7950	ZY-7960	ZY-7970	ZY-7980
Appearance	Transparent	Transparent	Transparent	Transparent	Transparent	Transparent	Transparent
Plasticity	130	155	200	220	260	280	320
Hardness (ShoreA)	20	30	40	50	60	70	80
Density (g/cm ³)	1.05	1.08	1.11	1.14	1.17	1.2	1.23
Tensile Strength (Mpa)	7.2	9	10	10	10	9	9
Elongation (%)	800	850	780	650	550	400	300

Product	ZY-7920	ZY-7930	ZY-7940	ZY-7950	ZY-7960	ZY-7970	ZY-7980
Tear Strength (KN/m)	18	20	22	25	30	25	25

13. Special Hardness Silicone (Low Hardness Silicone)

Application:

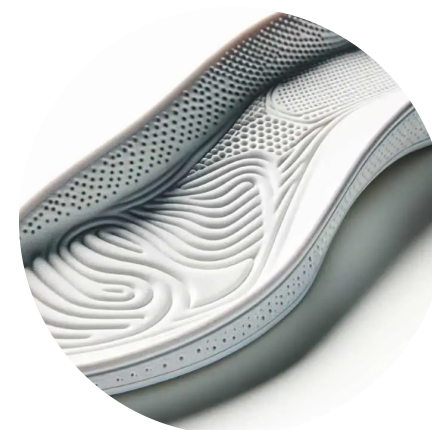
Suitable for making cling film, anti-slip mats, shoe insoles, and similar products.

Features:

High strength, low hardness, good flexibility.

Testing:

Contains 50% silicone, added at a ratio of 1.5%, subjected to 175°C for 5min at 15Mpa.



Special Hardness Silicone Technical Data Sheet

Product	ZY-1105	ZY-1110	ZY-7105	ZY-7110
Appearance	Semi-transparent	Semi-transparent	Semi-transparent	Semi-transparent

Product	ZY-1105	ZY-1110	ZY-7105	ZY-7110
Plasticity	50	80	50	80
Hardness (ShoreA)	5	10	5	10
Density (g/cm ³)	1.05	1.08	1.06	1.08
Tensile Strength (Mpa)	2	3	3	5
Elongation (%)	750	800	800	850
Tear Strength (KN/m)	5	7	6	8

14. Flame Retardant Silicone

Application:

Suitable for making various flame retardant products.

Features:

High strength, halogen-free flame retardant, excellent flame retardant performance.

Testing:



Contains 50% silicone, added at a ratio of 1.5%, subjected to 175°C for 5min at 15Mpa.

Flame Retardant Silicone Technical Data Sheet

Product	ZY-9350	ZY-9360	ZY-9370
Appearance	White	White	White
Plasticity	210	300	340
Hardness (ShoreA)	50	60	70
Density (g/cm ³)	1.3	1.4	1.5
Tensile Strength (Mpa)	6	6	5.5
Elongation (%)	380	200	200
Tear Strength (KN/m)	14	13	12
Flame Retardant Grade/2MM	94V-0	94V-0	94V-0

15. Oil-Seeping Silicone

Application:

Suitable for making automotive accessories, connectors, and similar products.

Features:

High strength, excellent oil-seeping properties, oil content exceeds 8%.

Testing:

Contains 50% silicone, added at a ratio of 1.5%, subjected to 175°C for 5min at 15Mpa.

**Oil-Seeping Silicone Technical Data Sheet**

Product	ZY-9130	ZY-9140	ZY-9150	ZY-9160	ZY-9170	ZY-9180
Appearance	Semi-transparent	Semi-transparent	Semi-transparent	Semi-transparent	Semi-transparent	Semi-transparent
Plasticity	140	170	200	220	240	260
Hardness (ShoreA)	30	40	50	60	70	80
Density (g/cm ³)	1.12	1.14	1.17	1.2	1.21	1.23
Tensile Strength (Mpa)	9	10	10	9.5	8.5	8.5
Elongation (%)	850	800	700	500	350	200

Product	ZY-9130	ZY-9140	ZY-9150	ZY-9160	ZY-9170	ZY-9180
Tear Strength (KN/m)	20	25	30	25	25	25

16. Anti-Static Gas-Phase Silicone

Application:

Suitable for making anti-static electronic product protective sleeves and rubber rollers.

Features:

High strength, odorless, excellent anti-static effect.

Testing:

Contains 50% silicone, added at a ratio of 1.5%, subjected to 175°C for 5min at 15Mpa.



Anti-Static Gas-Phase Silicone Technical Data Sheet

Product	ZY-9230	ZY-9240	ZY-9250	ZY-9260	ZY-9270	ZY-9280
Appearance	Semi-transparent	Semi-transparent	Semi-transparent	Semi-transparent	Semi-transparent	Semi-transparent

Product	ZY-9230	ZY-9240	ZY-9250	ZY-9260	ZY-9270	ZY-9280
Plasticity	150	190	250	280	300	320
Hardness (Shore A)	30	40	50	60	70	80
Density (g/cm ³)	1.11	1.14	1.17	1.2	1.21	1.23
Tensile Strength (Mpa)	8	9.5	10	9	8.5	8.5
Elongation (%)	900	700	600	500	400	300
Tear Strength (KN/m)	17	20	25	25	25	25

17. Heat-Resistant Silicone

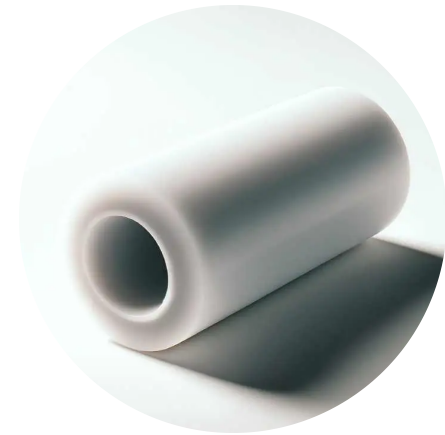
Application:

Suitable for making automotive parts, heat-resistant rubber rollers, and heat-resistant seals.

Features:

Excellent heat resistance and mechanical strength.

Testing:



Contains 50% silicone, added at a ratio of 1.5%, subjected to 175°C for 5min at 15Mpa.

Heat-Resistant Silicone Technical Data Sheet at 300°C

Product	ZY-9040	ZY-9050	ZY-9060	ZY-9070
Appearance	Semi-transparent	Semi-transparent	Semi-transparent	Semi-transparent
Plasticity	150	200	240	240
Hardness (ShoreA)	40	50	60	70
Density (g/cm ³)	1.14	1.16	1.18	1.21
Tensile Strength (Mpa)	8.5	9	9.5	9
Elongation (%)	700	600	600	400
Tear Strength (KN/m)	15	20	25	25
250°C x 72H Heat Aging				
Hardness	40	50	60	70
Tensile Strength	6.2	7.3	7.5	6.5
Elongation	380	300	280	200

Heat-Resistant Silicone Technical Data Sheet at 350°C

Product	ZY-9540	ZY-9550	ZY-9560	ZY-95570
Appearance	Semi-transparent	Semi-transparent	Semi-transparent	Semi-transparent
Plasticity	150	200	240	240
Hardness (ShoreA)	40	50	60	70
Density (g/cm ³)	1.14	1.16	1.18	1.21
Tensile Strength (Mpa)	8.5	9	9.5	9
Elongation (%)	700	600	600	400
Tear Strength (KN/m)	15	20	25	25
gggggggggg				
Hardness	40	50	60	70
Tensile Strength	5.2	5	4.9	5.2
Elongation	350	220	180	160

[← Previous Post](#)

[Next Post →](#)

Leave a Comment

Logged in as Hans. [Edit your profile.](#) [Log out?](#) Required fields are marked *

Type here..

[POST COMMENT »](#)

[Home](#)

[Services](#)

[Products](#)

[Blog](#)

[About](#)

[Contact Us](#)

[Sitemap](#)

[Privacy Policy](#)

[Terms of Service](#)

[Cookie Policy](#)