

Your question makes our innovation ———

KCC SILICONE

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KCC SILICONE

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KCC SILICONE



KCC Silicone takes the lead in the new high technology industry

Today's building materials are essentially blends or composites of organic and inorganic chemical products. KCC has long taken pride in its position of a market leader in these chemical fields. Up until recently, the two divisions within KCC operated separately, but now, have been merged together to provide enhanced synergy, cost efficiency, and service to our multitude of highly valued customers.

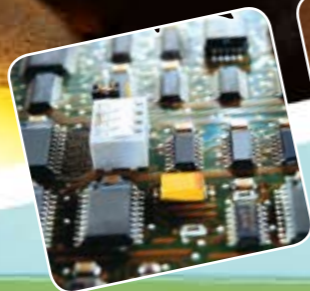
Consequently, Korea Chemical Co. Ltd., specialized in organic chemical products (mainly paints and resins for paints) has merged with Kumgang Chemical Co. Ltd. into a single legal entity entitled Kumgang Korea Chemical Co. Ltd., but still known as KCC for short.

The technical integration of organic and inorganic chemistry business under one and the same roof ensures better products, better technical services, and more competitive prices. It is KCC's intention to continue to be a worldwide player in its business world in the 21st century and to continue to invest in the innovative R&D activities.

Introduction to KCC Silicone Business

KCC has constructed the first silicone monomer production plant in Korea in 2003. KCC makes well advances in the R&D on silicone industry with researchers specialized in the field of silicone monomer, polymer synthesis and the development of applicable products. Thus, KCC has completed the development in silicone-related field successfully. KCC is ready to produce and provide silicone products including silicone sealant for construction, industrial RTV, silane, fluids, emulsion and dispersion as well as rubber.

Moreover, KCC intends to make good contributions to promote the competitive power of our customers by supplying products corresponding well to their very best needs by concentrating our energies on R&D activities.



A better life
for tomorrow!

Leading the construction & chemical industry

KCC Products Plant



KCC, the frontier of building and chemical industry!

Fine technology and quality of our products prove!

KCC has more than 10 factories in Korea and started to construct production sites in abroad, presently finished establishing factories in China(Kunshan & Beijing), Singapore and Malaysia to make the best inroads into the world market.



The first silicone monomer production plant in Korea

KCC Plant



Ulsan Plant



Yeosu Plant



Cheonan Plant



Asan Plant



Daejeon Gymsum Plant



Daejeon Silicone Plant



Jeonju Building Material Plant



Jeonju Paint Plant



Jeonju Silicone Plant



Yeosu Plant



Uryang Plant



Moonmak Plant



KCC Chemical (Beijing) Co., Ltd.



KCC Chemical (Kunshan) Co., Ltd.



KCC (Guangzhou) Co., Ltd.



KCC (Singapore) Pte. Ltd.



KCC (Vietnam) Co., Ltd.



KCC Paint (India) Pvt. Ltd.



KCC Boya Sanayi Ve Ticaret Ltd.Sti.

Creating the customer value with innovations in techniques

KCC Central Research Institute



Creating values to promote the interests of our customers through technical innovation.

Based upon the outstanding and state-of-the-art technologies developed in C.R.I., KCC keeps providing our customers properly with the best quality and reasonable price to increase customers' value as top priority. In order to consistently achieve this objective, we are aiming targets such as

1. R&D which is customer oriented
2. R&D which leads market and technology
3. Fostering outstanding human resources

KCC Central Research Institute is an integrated laboratory for researching and developing of chemical products, which has had many successful and advanced technical achievements through its R&D activities since its establishment in Suwon, Gyeonggi-Do, Korea in 1979. Since relocation to Yongin, Gyeonggi-Do in 1988, it has widened its area and now it is equipped with a main building for labs and administrative offices, 2nd. building for Pilot and labs, some facilities for welfare, houses for testing building materials, human resource developing center for training employees and up-to-date facilities and equipments of over 12.15 acres on the 16.2 acres of land. Now it is being told as an integrated R&D center for fine chemical industry including organic materials such as resins and paints, inorganic materials such as glass, fibers and composite materials, and more, the high-tech material, silicone from combination of the knowledge and experience on organic and inorganic chemical field.



Central Research Institute of KCC is always beside you for the better future!
We are not afraid, but ready to accept the never ending changes!





Silicone products are everywhere you look!

They play a contributing role in nearly every industry.



Environment friendly!

KCC knows what the highest priority should be for us all. We do what we can for a better life.



KCC Silicone improves the properties of your products and process!

Silicone ; a synthetic material that exhibit combined properties of organic and inorganic materials.



Less for more!

Stable in properties as well as in cost-wise. Silicone makes a stable organic combination and create value added qualities.



Your Future be with Silicone!

KCC be with your future!
Taste the unlimited application potential of silicone.

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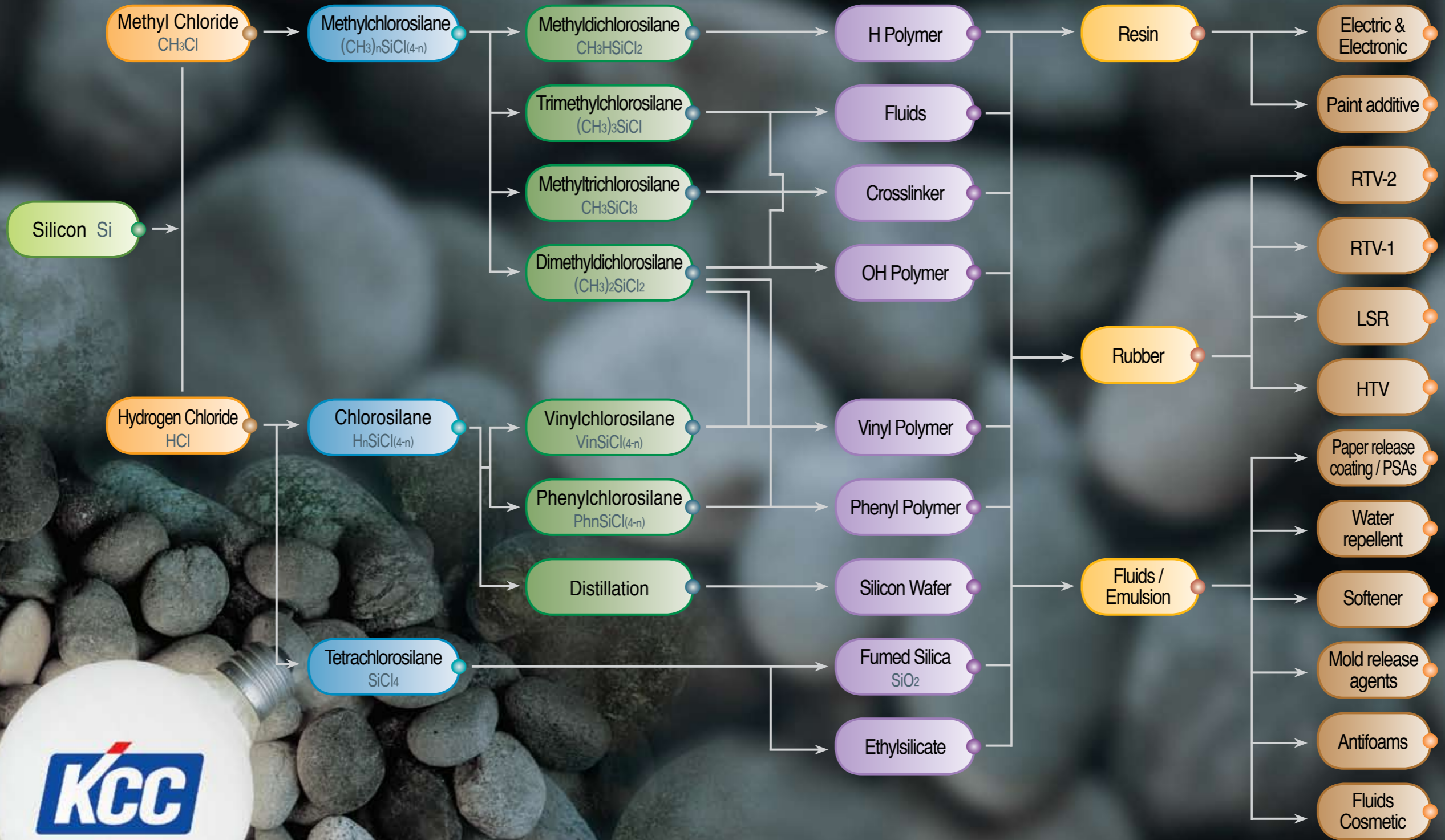
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We are the one to help you.
We offer you from the raw material to the products
With excellent quality and reliable supply.
Find out more! Contact us!

Silicone "Sands of Magic" To create is to dare!



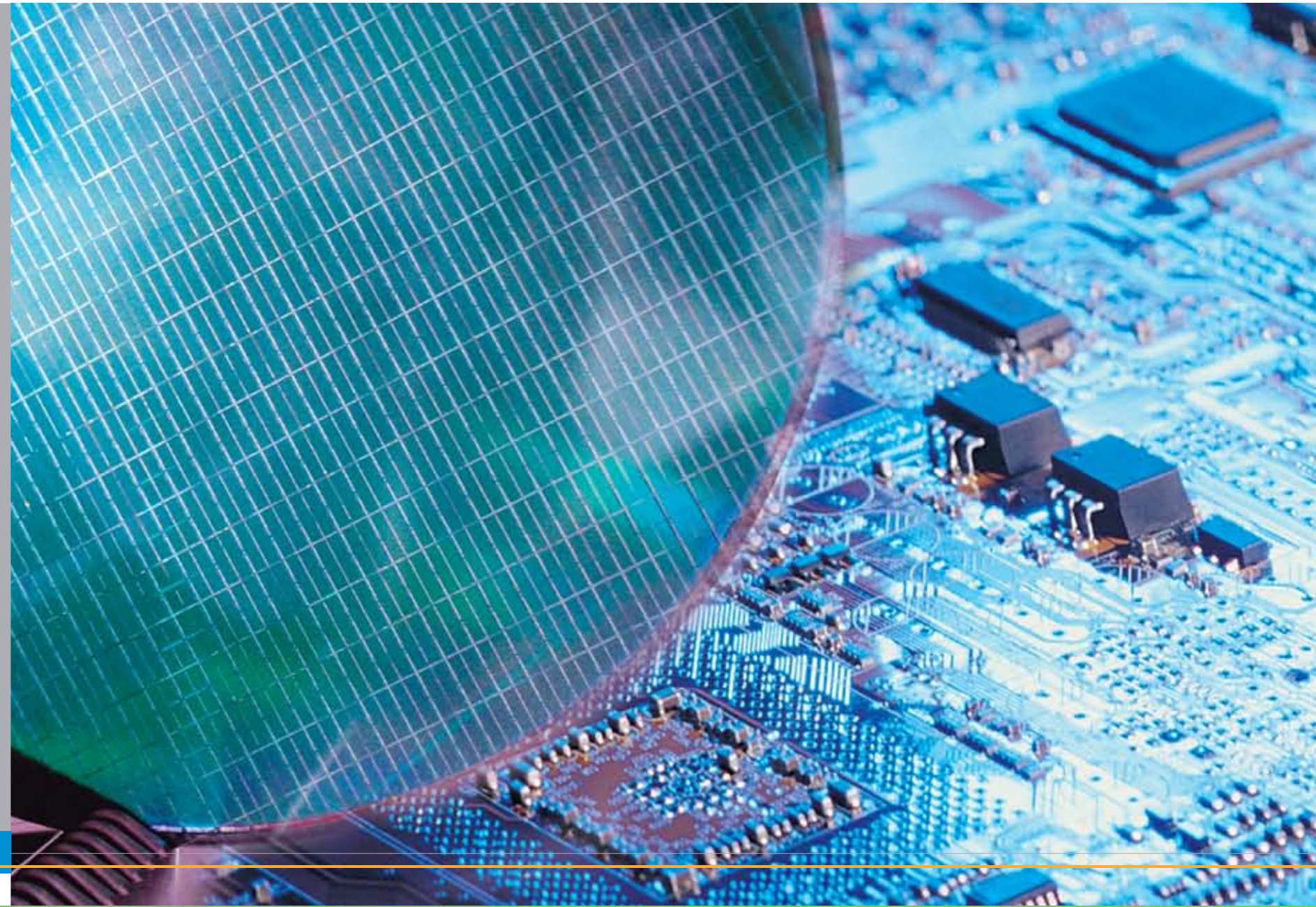
Manufacturing process



SILICONE MANUFACTURING PROCESS

Silane / Coupling Agent

Silane are widely used in various industries including electronics, semi-conductors, and pharmaceuticals. **Silane coupling agents** contain hydrolytic functional group reacting with inorganic materials (such as glass and metal) and organic functional groups chemically bonding to organic materials (such as synthetic resin). Because of these functions, silane coupling agents play a role in bonding organic materials to inorganic materials and in improving mechanical strength, water resistance and adhesive properties of composite materials. Silane coupling agents are extensively used in composite applications such as resins, surface treatment for glass fiber, paints, adhesives, and primers.



KCC SILICONE Moving Forward through Quality & Technology



Classification	Product name	Chemical nomenclature	Chemical structure	M.W	Specific Gravity 25 °C	Refractive index 20 °C	Flash point (°C)	Boiling point (°C)
Coupling Agent	SB3003M	3-Methacryloxypropyltrimethoxysilane	$\begin{array}{c} \text{CH}_3 \\ \\ \text{CH}_2=\text{C}-\text{C}-\text{O}-\text{C}_3\text{H}_6\text{Si}(\text{OCH}_3)_3 \\ \\ \text{O} \end{array}$	248.35	1.045	1.429	92	190
	SB2003M	3-Glycidyloxypropyltrimethoxysilane	$\begin{array}{c} \text{O} \\ \diagup \quad \diagdown \\ \text{CH}_2-\text{CH}-\text{CH}_2\text{OC}_3\text{H}_6\text{Si}(\text{OCH}_3)_3 \end{array}$	236.34	1.069	1.428	110	290
	SB1013E	3-Aminopropyltriethoxysilane	$\text{H}_2\text{NC}_3\text{H}_6\text{Si}(\text{OCH}_2\text{CH}_3)_3$	221.37	0.946	1.422	96	217
	SB1003M	N-2-(Aminoethyl)-3-aminopropyltrimethoxysilane	$\text{H}_2\text{NC}_2\text{H}_4\text{NHC}_3\text{H}_6\text{Si}(\text{OCH}_3)_3$	222.36	1.01	1.447	150	140/15 torr
	SB1022M	N-2-(Aminoethyl)-3-aminopropylmethyltrimethoxysilane	$\text{H}_2\text{NC}_2\text{H}_4\text{NHC}_3\text{H}_6\text{Si}(\text{OCH}_3)_2\text{CH}_3$	206.36	0.975	1.445	90	265
Crosslinker	SA1003O	Methyltris(methylethylketoximo)silane	$\text{CH}_3\text{Si}[\text{ON}=\text{CCH}_2(\text{C}_2\text{H}_5)]_3$	301.46	0.982	1.455	90	126/3 torr
	SA0004O	Tetrakis(methylethylketoximo)silane	$\text{Si}[\text{ON}=\text{CCH}_2(\text{C}_2\text{H}_5)]_4$	372.55	0.932	1.483	4	111
	SA3003O	Vinyltris(methylethylketoximo)silane	$\text{CH}_2\text{CHSi}[\text{ON}=\text{CCH}_2(\text{C}_2\text{H}_5)]_3$	313.47	0.982	1.464	58	113/0.1 torr
	SA4003O	Phenyltris(methylethylketoximo)silane	$\text{C}_6\text{H}_5\text{Si}[\text{ON}=\text{CCH}_2(\text{C}_2\text{H}_5)]_3$	363.53	0.995	1.5	61	63/3 torr

Fluids / Modified Fluids / Cosmetics

Silicone fluids, made from quartz as the basic raw material, are colorless, transparent, and odorless liquid. Depending on using applications, silicone fluids of various viscosities from low to high are available. Silicone fluids offer excellent properties: heat resistance, cold resistance, corrosion resistance, and relatively small change in viscosity with temperature.

Silicone fluids are used in a wide variety of industries including mechanicals, electronics, chemicals, textiles, papers, construction, public works, and cosmetics. Applications of silicone fluids include lubricants, electrical insulating oils, heat-transfer fluids, polishes, antifoams, textile softeners, water repellents, and additives for cosmetics.

Modified silicone fluids are silicone fluids modified with the addition of organic functional groups to dimethyl silicone fluids. The reactivity and compatibility with organic materials depend on the type of organic functional groups.

Silicone fluids for cosmetics are harmless, chemically and physiologically inert and provide excellent water repellency, compatibility and gas permeability. They are used in a variety of applications such as skin care, make-up and hair care. Benefits achieved by the use of silicones include softness, lubricity and smooth feel. skin care, make-up and hair-care products.



KCC SILICONE Moving Forward through Quality & Technology

Classification	Product name	Appearance	Viscosity 25 °C (cSt/cPs)	Specific gravity 25 °C	Volatile content(%) 150 °C, 3 hr	Refractive index 25 °C	Flash point (°C)	Specific heat 25 °C(cal/g°C)	Thermal conductivity 25 °C(W/m°C)	Surface tension 25 °C(mN/m)	Remarks
Dimethyl silicone fluid	SF1000N	Transparent	0.65 cst	0.76	BP. 100 °C	1.375	-1	0.47	0.1	15.9	Non-reactive
		Transparent	1 cst	0.815	BP. 153 °C	1.382	37	0.47	0.1	16.5	
		Transparent	1.5 cst	0.85	BP. 194 °C	1.387	64	0.47	0.1	17.3	
		Transparent	2 cst	0.872	35(105 °C, 3 hrs)	1.39	75	0.42	0.11	18.7	
		Transparent	5 cst	0.915	20(105 °C, 3 hrs)	1.396	> 90	0.42	0.12	19.7	
		Transparent	6 cst	0.925	20	1.397	> 150	0.41	0.14	20.1	
		Transparent	10 cst	0.935	< 30	1.399	> 160	0.4	0.14	20.1	
		Transparent	20 cst	0.945	< 5	1.400	> 200	0.39	0.15		
		Transparent	50 cst	0.96	< 0.5	1.402	> 300	0.38	0.15	20.5	
		Transparent	100 cst	0.965	< 0.5	1.403	> 300	0.36	0.16	20.9	
		Transparent	200 cst	0.97	< 0.5	1.403	> 315	0.36	0.16	21.1	
		Transparent	350 cst	0.97	< 0.5	1.403	> 315	0.35	0.16	21.1	
		Transparent	500 cst	0.97	< 0.5	1.403	> 315	0.35	0.16	21.1	
		Transparent	1,000 cst	0.97	< 0.5	1.403	> 315	0.35	0.16	21.1	
		Transparent	5,000 cst	0.975	< 0.5	1.403	> 315	0.35	0.16	21.1	
		Transparent	10,000 cst	0.975	< 0.5	1.403	> 315	0.35	0.16	21.3	
		Transparent	12,500 cst	0.975	< 3	1.403	> 315	0.35	0.16	21.3	
		Transparent	30,000 cst	0.976	< 3	1.403	> 315	0.35	0.16	21.3	
Transparent	60,000 cst	0.976	< 3	1.403	> 315	0.35	0.16	21.3			
Transparent	100,000 cst	0.976	< 3	1.403	> 315	0.35	0.16	21.3			
Transparent	500,000 cst	0.976	< 3	1.403	> 315	0.35	0.16	21.3			
Transparent	1,000,000 cst	0.978	< 3	1.403	> 315	0.35	0.16	21.3			
Volatile fluid	SF0001Z	Transparent	2.4 cP	0.053	BP. 175 °C	1.395	54	-	-	-	Dimethylcyclosiloxane(DMCS)
	SF0004Z	Transparent	2.5 cP	0.953	BP. 175 °C	1.394	55	-	-	17.8	Octamethylcyclotetrasiloxane
	SF0005Z	Transparent	4 cP	0.955	BP. 210 °C	1.397	72	-	-	18	Decamethylcyclopentasiloxane
	SF0006Z	Transparent	7 cP	0.96	BP. 245 °C	1.402	93	-	-	18.8	Dodecamethylcyclohexasiloxane
	SF0015Z	Transparent	5 cP	0.96	BP. 217 °C	1.396	74	-	-	-	SF0005Z 60~70 %, SF0006Z 30~40 %
Phenyl-modified silicone fluid	SF5000P	Transparent	100 cP	1.000	< 0.5	1.425	> 300	-	-	-	
	SF5400P	Transparent	400 cP	1.07	< 0.5	1.505	> 300	-	-	-	
	SF5600Z	Transparent	25 cP	0.98	25~31(105 °C, 3 hrs)	1.460	> 100	-	-	-	
Polyether-modified silicone fluid	SM3110P	Transparent yellow	750 cP	1.02	60	-	-	-	-	-	
	SM3120P	Transparent slightly yellow	320 cP	1.00	< 5	-	-	-	-	-	HLB = 1,6
	SM3210P	Transparent	700 cP	1.05	< 5	1.444	-	-	-	-	HLB = 9
	SM3220P	Transparent slightly yellow	350 cP	1.07	< 5	1.454	-	-	-	-	HLB = 13
	SM3250P	Transparent lemon yellow	950 cP	1.04	< 5	-	-	-	-	-	HLB = 7
	SM3270P	Light amber liquid	2,000 cP	1.04	-	-	-	-	-	-	
	SM3310P	Transparent	140 cP	1.06	< 3	1.450	-	-	-	-	HLB = 12
	SM3320P	Transparent	800 cP	1.01	< 5	1.421	-	-	-	-	HLB = 4,5
	SM3330P	Transparent	1,600 cP	0.93	< 7	1.440	-	-	-	-	HLB < 5,0
	SM3410P	Amber liquid	40 cP	1.02	-	1.450	-	-	-	-	HLB = 4,7
	SM3420P	Clear to yellow liquid	1,900 cP	1.02	-	1.442	-	-	-	-	HLB = 6
	SM3430P	Clear to yellow liquid	2,500 cP	1.03	-	1.446	-	-	-	-	HLB = 7,8
	SM3450P	Hazy liquid	350 cP	1.04	-	1.438	-	-	-	-	HLB = 8,7
	SM4110P	White to slightly yellow	90 (40 °C)	-	-	-	-	-	-	-	
	SM4112P	White to slightly yellow	120 (40 °C)	1.04	-	-	-	-	-	-	Melting Point : 32 °C
Alkyl-modified silicone fluid	SM0001P	Transparent brown	1,300 cP	0.91	-	1.464	93	-	-	-	Benzopropyl, dodecyl modified
	SM4120P	Transparent slightly yellow	40 (25 °C)	0.85	-	1.448	-	-	-	-	Melting Point : 18 °C
	SM4130P	Solid white	35 (40 °C)	0.85	-	1.447	-	-	-	-	Melting Point : 32 °C
	SF9900N	Transparent	6,000 cP	0.96	85	1.397	72	-	-	-	Cyclopentasiloxane and Dimethicone
Gum blends	SF9901N	Transparent	105,000 cP	0.96	77	1.397	72	-	-	-	Cyclopentasiloxane and Dimethicone
	SF9902E	Transparent	6,200 cP	0.96	85	1.397	72	-	-	-	Cyclopentasiloxane and Dimethiconol
	SF9904E	Colorless transparent	6,000 cP	0.95	-	1.397	52	-	-	-	Cyclomethicone and Dimethiconol
	SF9905E	Colorless transparent	3,200 cP	0.93	-	1.397	135	-	-	-	Dimethicone and Dimethiconol
	SF9906E	Colorless transparent	1,500 cP	0.93	85	1.397	105	-	-	-	Dimethicone and Dimethiconol
	SM9110G	Slightly transparent paste	250,000~500,000 cP	0.96	86~88(105 °C, 3 hrs)	1.4	-	-	-	-	Gel content : 12~14 %, base oil = D5
Gel blends	SM9120G	Slightly transparent paste	120,000~250,000 cP	0.96	Max.15(105 °C, 3 hrs)	1.4	-	-	-	-	Gel content 20~30 %, base oil = MEP 6 cSt
	SM9140G	Slightly transparent paste	120,000~250,000 cP	0.96	88~99(105 °C, 3 hrs)	1.4	-	-	-	-	Gel content 10~12 %, base oil = D5
	SM9150G	Slightly transparent paste	300,000~500,000 cP	0.96	85~88(105 °C, 3 hrs)	1.4	-	-	-	-	Gel content 12~15 %, base oil = D5
Silicone elastic powder	SM9510G	White Powder		0.35	Max.2						Particle size : 40~200 μm



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KCC SILICONE Moving Forward through Quality & Technology

Classification	Product name	Appearance	Viscosity 25 °C (cSt/cPs)	Specific Gravity 25 °C	Volatile content % (150 °C, 3 hr)	Refractive index 25 °C	Flash point (°C)	Remarks
Methyl hydrogen silicone fluid	SF6000P	Transparent	15~25 cPs	1	< 3	1.396	> 100	H-content : 15.5 mmol/g
	SF6001P	Transparent	300 cP	0.97	< 3			H-content : 1.4 mmol/g
	SF6002P	Transparent	210 cP	0.97	< 3			H-content : 2.3 mmol/g
	SF6003P	Transparent	35 cP	0.97	< 3			H-content : 4.3 mmol/g
	SF6004P	Transparent	40 cP	0.98	< 3			H-content : 7.3 mmol/g
Hydroxyl ended silicone fluid	SF2000E	Transparent	25 cP	0.98	30~40		54	OH-content : 0.7 wt%
		Transparent	35 cP	0.98		-	70	OH-content : 2.7 wt%
		Transparent	40 cP	0.98		-	70	OH-content : 5.5 wt%
	SF2001E	Transparent	60 cP	0.98	< 7		70	OH-content : 1.5 wt%
		Transparent	5,000 cP	0.98	< 3	-	> 300	OH-content : 0.07 wt%
		Transparent	20,000 cP	0.98	< 3	-	> 300	OH-content : 0.04 wt%
		Transparent	50,000 cP	0.98	< 3	-	> 300	OH-content : 0.035 wt%
Mono Hydroxyl ended silicone fluid	SF2002O	Transparent	80,000 cP	0.98	< 3	-	> 300	OH-content : 0.03 wt%
		Transparent	3,000 cP	0.98	< 3	-	> 300	OH-content : 0.04 wt%
Vinyl ended silicone	SF3000E	Transparent	50,000 cP	0.98	< 3			OH-content : 0.017 wt%
		Transparent	100 cP	0.97	< 3			Vinyl content : 0.4 mmol/g
		Transparent	200 cP	0.97	< 3			Vinyl content : 0.25 mmol/g
		Transparent	450 cP	0.97	< 3			Vinyl content : 0.165 mmol/g
		Transparent	1,000 cP	0.97	< 3			Vinyl content : 0.13 mmol/g
		Transparent	2,000 cP	0.97	< 3			Vinyl content : 0.088 mmol/g
		Transparent	10,000 cP	0.97	< 3			Vinyl content : 0.05 mmol/g
		Transparent	70,000 cP	0.97	< 3			Vinyl content : 0.025 mmol/g
		Transparent	150,000 cP	0.97	< 3			Vinyl content : 0.02 mmol/g
Amino-modified silicone fluid	SM1000P	Transparent slightly yellow	1,000 cP	0.98	< 3	1.408		Amine wt% : 0.90
	SM1100P	Transparent slightly yellow	1,800 cP	0.98	< 5	1.408		Amine wt% : 0.35
	SM1900P	Translucent slightly yellow	8,000 cP	0.98	< 8	1.408		Amine wt% : 0.20
	SM1002P	Transparent slightly yellow	8,000 cP	0.98	< 15	1.408		Amine wt% : 0.25
	SM1008P	Transparent slightly yellow	1,000 cP	0.98	< 5	1.408		Amine wt% : 0.50
	SM181Z	Slightly hazy yellow	2,500 cP	0.98	< 75	-	-	Amine wt% : 0.10
Epoxy-modified silicone fluid	SM2100P	Not transparent slightly yellow	5,000 cP	0.98	< 5			Epoxy wt% : 1.5
Silicone gum	SF3900C	Transparent	-	0.98	< 3	-	> 300	Vi content : 0.06~0.08 mol% M.W : 700,000~850,000 g/mol
	SF3901C	Transparent	-	0.98	< 3	-	> 300	Vi content : 0.06~0.08 mol% M.W : 500,000~650,000 g/mol
	SF3902M	Transparent	-	0.98	< 3	-	> 300	Vi content : 0.22~0.24 mol% M.W : 700,000~850,000 g/mol
	SF3903M	Transparent	-	0.98	< 3	-	> 300	Vi content : 0.22~0.24 mol% M.W : 500,000~650,000 g/mol
	SF3904M	Transparent	-	0.98	< 3	-	> 300	Vi content : 1.0~1.2 mol% M.W : 500,000~650,000 g/mol
	SF3905M	Transparent	-	0.98	< 3	-	> 300	Vi content : 8.1~8.3 mol% M.W : 500,000~650,000 g/mol
	SF2900E	Transparent	-	0.98	< 3	-	> 300	M.W : 700,000~850,000 g/mol
	SF2901E	Transparent	-	0.98	< 3	-	> 300	M.W : 500,000~650,000 g/mol
	SF1900N	Transparent	-	0.98	< 3	-	> 300	M.W : 700,000~800,000 g/mol
	SF1901N	Transparent	-	0.98	< 3	-	> 300	M.W : 500,000~650,000 g/mol



Antifoam / Mold release agents Textile treating agents / Personal care additives

Antifoam / Mold release agents Silicone antifoams provide better properties than other antifoams. They eliminate foams in most of all liquids by only a minimum input quantity and prevent the formation of foams persistently. Silicone mold release agents are harmless, chemically stable, and capable of using in wide temperature range. They are widely used for most of all molding part in a variety of industries including rubbers, plastics, metals and foods.

Textile treating agents Silicone textile treating agents significantly enhance softness and smoothness of textile and improve sewing properties by increasing abrasion resistance and wear resistance of textile. Our main products include textile softeners, water-repellent agents for fabrics, and various kinds of silicone softeners suitable for fabrics. Silicone textile treating agents are used in most of all textiles such as cotton, wool, and polyester.

Personal care additives Silicone emulsions provide strong conditioning performance. They have excellent hair smoothness. They provide to enhance dry and wet combing and soft feel to hair. It is also easy to formulate with. Dimethyl silicone emulsion is a blend of polydimethylsiloxane gum and fluid, only high molecular weight polydimethylsiloxane or polymerization specially designed to use in personal care products. Amino silicone emulsion is emulsified of the amine-functional silicone polymer and it is easy to apply to the water soluble product. Due to the special characteristic of amino modified silicone silicone. It excellently shows durability and softness.

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Classification	Type	Application	Product name	Solid content (%)	Viscosity 25 °C (cPs)	Emulsifier type	pH	Characteristics
Textile treating agents	Fluid	Fabric Softener	SF1000N	100	0.65~10,000			No yellowing / Good preservation stability in high temperature Give lubricate effect
			SM1000P	100	700~1,500			Amino modified silicone fluid Low yellowing, High endurance, Soft touch, Amine wt% : 0.85~0.95
			SM1100P	100	1,000~3,000			Amino modified silicone fluid Low yellowing, High endurance, Soft & Wet touch, Amine wt% : 0.3~0.4
		SM1900P	93	2,000~10,000			Amino modified silicone fluid Low yellowing, High endurance, Soft & Wet touch, Amine wt% : 0.3~0.4	
		Fabric Water repellent	SF6000P	100	5~50			Good absorption effect Prevention spot Give resistance of creases
			SM1120P	100	10~200			Good absorption effect Prevention spot Give resistance of creases
	Emulsion	Fabric Softener	SI5000Z	32	10~500	Non-ionic	6.0 ~ 8.0	Low yellowing, Excellent stability of preservation and solubility Excellent softness with a little use
		Fabric Softner	SI5005Z	80	200,000~800,000	Non-ionic	4.0 ~ 8.0	Leather & Textile, Excellent slip and flexibility, water repellency
		Elastomeric Silicone Softener	SI5100Z	40	10~200	Cationic	5.0 ~ 6.0	Give excellent elastomeric effect Good water repellency, smoothness
		Thread Lubricant	SI5300Z	28	100~300	Non-ionic	6.0 ~ 8.0	Excellent deterrent of frictional heat in sewing process
Softener for Tissue		SI5500Z	40	10~500	Non-ionic	5.0 ~ 7.0	Give the improvement of Intensity to tissue with softness	
Self-emulsifying	Self-emulsifying type Fabric Softener	SM1811Z	30	1,000~3,000	-	-	Excellent Self-emulsifiable effect, emulsifying stability Low yellowing, Anti-wrinkle, Amine wt% : 0.05 ~ 0.25	

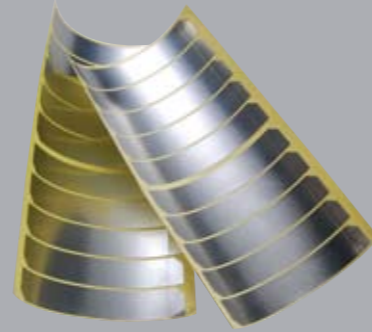
Classification	Application	Product Name	Silicone content(%)	Viscosity 25 °C (cP)	Emulsifier type	Particle size-Diameter	pH	Internal viscosity 25 °C (cP)	Characteristics
Personal Care (Emulsion)	Hair Care	SI6000Z	60	4,000 ~ 8,000	Non-ionic	10 ~ 30 μm	5.0 ~ 7.0	300,000	Superior conditioning additive Improves wet and dry combing Leaves hair feeling soft Imparts high gloss
		SI6001Z	60	4,000 ~ 8,000	Non-ionic	10 ~ 30 μm	5.0 ~ 7.0	600,000	
		SI6002Z	60	4,000 ~ 8,000	Non-ionic	10 ~ 30 μm	5.0 ~ 7.0	Min. 1,000,000	
		SI6003Z	64	200,000 ~ 800,000	Non-ionic	1 ~ 10 μm	4.0 ~ 8.0	Min. 20,000,000	
		SI6004Z	52	5,000 ~ 10,000	Non-ionic	1 ~ 10 μm	4.0 ~ 8.0	Min. 20,000,000	
		SI6010Z	60	2,000 ~ 4,000	Non-ionic	1 ~ 10 μm	5.0 ~ 7.0	60,000	
		SI6020Z	35	MAX, 100	Cationic	100 ~ 300 nm	7.0 ~ 8.5	Min. 2,000	Aminosilicone emulsion Reduced combing time on wet hair Does not give a heavy effect on dried hair
		SI6022Z	35	MAX, 100	Cationic	100 ~ 300 nm	7.0 ~ 8.5	Min. 2,000	
		SI6030Z	60	Max. 1,000	Anionic	Max. 1 μm	6.0 ~ 8.0	Min. 1,000,000	Improves wet combing Improves dry combing Leaves hair feeling soft
		SI6031Z	55	5,000 ~ 7,000	Non-ionic	0.5 ~ 5 μm	5.0 ~ 7.0	1,000,000	
		SI6032Z	28	Max. 200	Anionic	Max. 300 nm	5.0 ~ 7.0	Min. 1,000,000	Improves wet combing Improves dry combing Leaves hair feeling soft Variety blending
		SI6033Z	60	Max. 200	Anionic & Non-ionic	1 ~ 5 μm	5.0 ~ 7.0	60,000	
		SI6037Z	65	Max. 20,000	Amphoteric	28 ~ 42 μm	5.0 ~ 7.0	500,000	Superior conditioning additive / Improves wet and dry combing / Leaves hair feeling soft / Imparts high gloss
	SI6040Z	22	Max. 1,000	Anionic	Max. 100 nm	6.5 ~ 8.5	40,000 ~ 100,000	Small particle size of the emulsion / provides excellent dilution stability / Conditioning agent Transparent phase	
	SI6050Z	23	MAX, 500	Non-ionic	Max. 100 nm	6.0 ~ 8.0	700~1,500	Aminosilicone emulsion / Transparent appearance / Imparts high gloss - Leaves hair feeling soft	
	SI6060Z	60	7,000 ~ 15,000	Non-ionic	10 ~ 30 μm	5.0 ~ 7.0	500,000	Superior conditioning additive / Improves wet and dry combing / Leaves hair feeling soft Imparts high gloss	
	SI6070Z	40	Max. 500	Non-ionic	Max. 1 μm	4.0 ~ 6.0	80,000	Aminosilicone emulsion Superior conditioning additive Improves wet and dry combing Leaves hair feeling soft	
	SI6071Z	60	2,000 ~ 5,000	Non-ionic	Max. 5 μm	2.0 ~ 5.0	220,000		
	SI6082Z	20	Max. 500	Non-ionic	Max. 100 nm	5.0 ~ 7.0	3,500	Aminosilicone emulsion / Transparent appearance Imparts high gloss - Leaves hair feeling soft	
	SI6200Z	60	7,000 ~ 15,000	Non-ionic	1 ~ 10 μm	5.0 ~ 7.0	500,000	Superior conditioning additive Improves wet and dry combing Leaves hair feeling soft Imparts high gloss	
	SI6210Z	60	5,000 ~ 7,000	Non-ionic	1 ~ 10 μm	2.0 ~ 6.0	500,000		
	SI6400Z	65	Max. 15,000	Amphoteric	1 ~ 10 μm	5.0 ~ 7.0	500,000		
	Skin Care	SI6090Z	58	20 ~ 1,000	Non-ionic	1 ~ 10 μm	4.0 ~ 8.0	-	Silicone elastomer powder emulsion Impart silky feel to skin and hair
SI6091Z		58	20 ~ 1,000	Non-ionic	1 ~ 10 μm	4.0 ~ 8.0	-	Conditioning agent Leaves hair feeling soft Reduces shine on skin	

Classification	Type	Application	Product name	Solid content (%)	Viscosity 25 °C (cPs)	Emulsifier type	pH	Characteristics
Antifoams	Fluid	General Industry	SF1000N	100	0.65~10,000			Dimethyl silicone fluid / Excellent storage stability / Excellent stability at high temperature
	Compound	General Industry	SC3001Z	100	5,000~10,000			Excellent lasting property Effective in extreme pH environments
	Self-emulsifying	Textile Industry	SC3100Z	100	400~1,500	Non-ionic	-	Excellent stability at high temperature and pressure / Excellent stability of emulsifying
	Emulsion	General Industry	SI3000Z	15	1,000~3,000	Non-ionic	6.0 ~ 8.0	Excellent dispersibility and durability Effective in extreme pH environments
		General Industry	SI3001Z	25	1,500~3,500	Non-ionic	6.0 ~ 8.0	Excellent dispersibility and durability Effective in extreme pH environments
		Textile, Latex, Paint Industry	SI3200Z	30	1,000~3,000	Anionic	5.0 ~ 7.0	Excellent stability in high temperature and pressure Excellent emulsion stability
Mold release agent	Fluid	General Industry	SF1000N	100	0.65~10,000			For all industries except for special use
	Emulsion	General Industry	SI4000Z	36	1~200	Non-ionic	6.5 ~ 8.5	Excellent stability of emulsifying, Good releasability
		General Industry	SI4001Z	63	Max.2,000	Non-ionic	6.0 ~ 8.0	Excellent stability of emulsifying, Good releasability
		General Industry	SI4002Z	64	100~3,000	Non-ionic	6.0 ~ 8.0	Excellent stability of emulsifying, Good releasability, Odorless & High gloss
		General Industry	SI4005Z	64	10~2,000	Non-ionic	6.0 ~ 8.0	Excellent stability of emulsifying, Good dilution stability, Good releasability, Odorless & High gloss
		General Industry	SI4025Z	56	10~500	Non-ionic	7.0 ~ 8.5	Excellent paintability and Heat resistance
		Tire	SI4100Z	11	28~36 sec.	Anionic	6.0 ~ 7.5	For bladder coating. Good releasing effect, stability of emulsifying
		Solvent	Polyurethane	SG4000Z	70	100~500		
Water repellent for construction	Emulsion	Construction	SI1200Z	7	Max.100	Anionic	11.0 ~ 11.5	Wonderful surface repellency, Ease to use
			SI1300Z	5	1~30	Non-ionic	6.0 ~ 8.0	Methylhydrogen silicone emulsion, Wonderful surface repellency
			SI1400Z	40	10~100	Anionic	11.0 ~ 12.0	Wonderful surface repellency, Ease to use
			SI1450Z	35	1~200	Anionic	11.0 ~ 12.0	Wonderful surface repellency, breathable
			QR4000	20	1~30			Making eternal water repellent layer at surface of concrete, mortar, bricks
	Solvent		QR4900	5	1~30			Prevention of contamination by penetration of water

Pressure Sensitive Adhesives / Paper Release Coatings

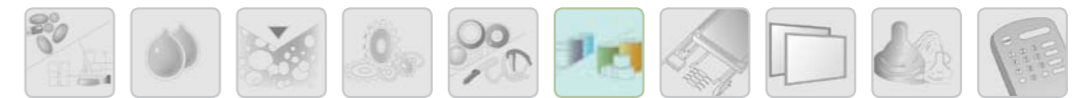
Silicone Pressure Sensitive Adhesives are highly functional adhesives that have the unique features of silicone such as heat resistance, cold resistance, water resistance, electrical insulation, ozone resistance, low inflammability, chemical inertness, and anti-pollution. Silicone PSAs have good adhesive properties at high and low temperature and especially, perform outstanding adhesion to most of all substrates which other organic adhesives are difficult to adhere to, such as polyethylene, polypropylene, polyester, fluoroc resin and silicone rubber.

Silicone paper release coatings provide excellent release, water repellency, heat resistance, cold resistance, water resistance, chemical resistance, subsequent adhesion, and lubrication properties. Silicone paper release coatings are widely used for release papers like tapes and labels, release films and synthetic rubbers.



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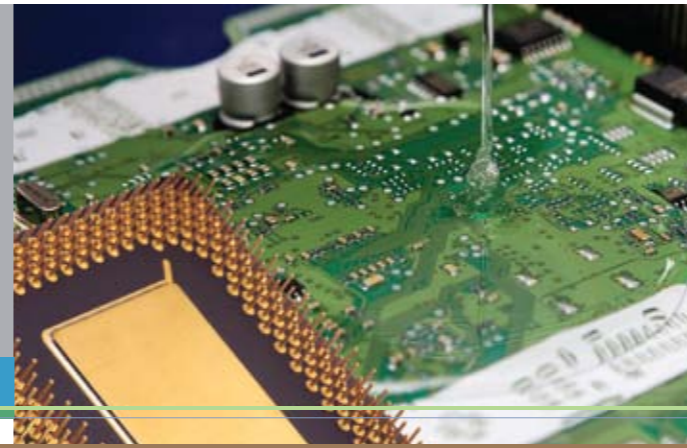
Classification	Product name	Uses	Characteristics	Viscosity 25 °C(cPs)	Active content (%)	Adhesive (gf/in.)	Tack (ball no.)	
Condensation	SG6001Z	General Masking & Splicing, General Insulation, Textile Hot-Fix	General Purpose	20,000 ~80,000	55~57	700~900	32	
	SG6010Z	General Masking & Splicing, General Insulation, Textile Hot-Fix, (F) PCB Process Masking	Good Thermal Resistance	20,000 ~80,000	55~57	700~900	32	
	SG6020Z	General Masking & Splicing, General Insulation	High Adhesion & Tack	20,000 ~80,000	55~57	1,000~1,200	32	
	SG6030Z	General Masking & Splicing, General Insulation, (F)PCB Process Masking	Excellent Thermal Resistance	20,000 ~80,000	55~57	700~900	32	
	SG6040Z	General Masking & Splicing, General Insulation, (F)PCB Process Masking	Excellent Thermal Resistance	20,000 ~80,000	55~57	700~900	32	
	SG6060Z	General Masking & Splicing, General Insulation	High Solid Content, High Tack	100,000 ~200,000	60~62	800~1,000	32	
PSAs	SG6081Z	For Silicone Rubber	Excellent Adhesion on Si-Rubber (LSR, HTV)	20,000 ~80,000	55~57	800~1,100 (On Si-Rubber)	-	
	SG6100A	General Masking & Splicing, General Insulation	General Purpose	20,000 ~80,000	56~58	700~900	32	
	SG6370A	LCD Protecting(Masking), Optical Film Protecting(Masking)	Good Wetting & Self Adhesion, Excellent Anchorage for no-primer Film(Primer Free Type), Adjustable to Wide Range of Adhesion from 1 to 30 gf/in. (Blending SG6370A & SG6480A)	20,000 ~80,000	54~56	20~30	Max.10	
	SG6481A	LCD Protecting(Masking), Optical Film Protecting(Masking)	Good Wetting & Self Adhesion, Adjustable to Wide Range of Adhesion from 1 to 800 gf/in. (Blending SG6310A & SG6452A)	30,000 ~90,000	50~55	1~2	Max.5	
	SG6310A	LCD Protecting(Masking), Optical Film Protecting(Masking)	Good Wetting & Self Adhesion, Adjustable to Wide Range of Adhesion from 1 to 800 gf/in. (Blending SG6310A & SG6452A)	20,000 ~80,000	54~56	500~700	23~27	
	SG6452A	LCD Protecting(Masking), Optical Film Protecting(Masking)	Good Wetting & Self Adhesion, Adjustable to Wide Range of Adhesion from 1 to 800 gf/in. (Blending SG6310A & SG6452A)	30,000 ~90,000	55~55	1~2	Max.5	
	SG6500A	General Masking & Splicing, General Insulation	High Adhesion & Tack	20,000 ~80,000	60~62	900~1,200	32	
	SG6800A	For Silicone Rubber	Excellent Adhesion on Si-Rubber(LSR, HTV)	20,000 ~80,000	55~57	800~1,100 (On Si-Rubber)	-	
	Primer	SG6733A	Primer for KCC PSA	Improving Anchorage for Various Film	8,000 ~15,000	28~32	-	-
	Catalyst	SK0010C	Addition Curing Catalyst	Addition Cure Type PSA and Primer's Curing Catalyst	200	100	-	-



Classification	Product name	Uses	Characteristics	Viscosity 25 °C(cPs)	Active content (%)	Release force (gf/in.)	Subsequent adhesion (%)	
Paper Release coatings	Solvent-based Type	SG2000A	Release Liner for Adhesive Tapes, Labels and Sheets	Non Transferrable Releasing	15,000	30	Max. 15	90 over
		SG2010A	Release Liner for Adhesive Tapes, Labels and Sheets	Transferrable Light Releasing	15,000	30	Max. 10	80 over
		SG2200A	Release Liner for Adhesive Tapes, Labels and Sheets (Specially Suitable for Films)	Excellent Anchorage for PET Film	15,000	30	Max. 15	90 over
	Solventless Type	SC2700A	Release Liner for Adhesive Tapes, Labels and Sheets	Non Transferrable Releasing	400	100	8~16	90 over
		SC2800A	Release Liner for Adhesive Tapes, Labels and Sheets	Non Transferrable Light Releasing	400	100	Max. 8	90 over
		SC2880A	Release Liner for Adhesive Tapes, Labels and Sheets	Transferrable Ultra Light Releasing	400	100	Max. 5	80 over
Catalyst	SK0010C	Addition Curing Catalyst	Addition Cure Type PSA and Primer's Curing Catalyst	200	100	-	-	

Silicone Grease / RTV-1

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Silicone grease is a silicone fluid, combined with thickener (such as metal soap) and various additives. Because of its excellent resistance to heat and oxidation over a wide temperature range and water resistance, silicone grease is used primarily as lubricants. Compared to other lubricants, silicone grease is more economical. Because it generates little oil separation, the frequency of oil supply is decreased and only a minimum input quantity results in excellent performance.

RTV-1 is a one-component room temperature vulcanizing silicone that cures to silicone rubber on exposure to atmospheric moisture at room temperature. RTV-1 performs excellent adhesion to most of all substrates without primers, outstanding weatherability assuring semi-permanent use, and excellent heat resistance suitable for using in the range of -50 °C.... to 200 °C.... With its excellent electrical properties, RTV-1 is used primarily as adhesive, sealing and coating materials for various industries including electrical, electronics, appliances, transportation, and mechanical.



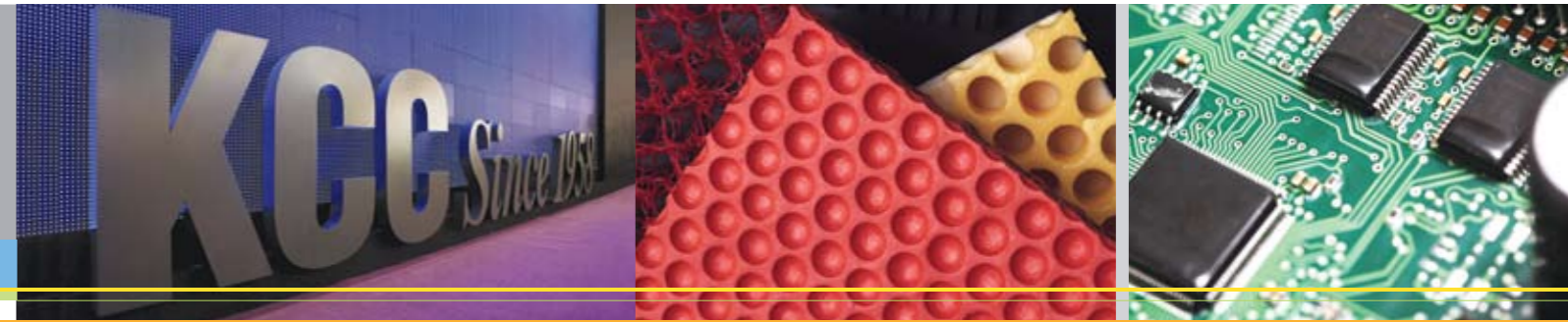
Classification	Uses	Product name	Color	Specific gravity	Oil separation (%)	Thermal conductivity (W/mK)	Thermal resistance (°C / W)
Grease	Thermal conductive use	SC6102Z	White	2.35	0.02	1.0	0.057
		SC6490C	White	2.65	0.00	1.8	0.095
		SC6530C	Grey	3.1	0.1	3.2	0.057
		SC6540C	Grey	3.2	0.1	3.9	0.051

Classification	Uses	Product name	Appearance	Color	Viscosity 25 °C Pa.s{P}	TFT.(Min) 20 °C 65 %RH	Specific gravity 25 °C	Durometer SHORE A	Tensile strength (kgf/cm²)	Elongation (%)	Certification (UL94)
RTV-1	General purpose	QS9102	Non Flowable	White, Black, Gray	Paste	10	1.02	25	19	350	HB
		QS9106	Non Flowable	Transparent, White, Black, Gray	Paste	10	1.25	30	12	450	HB
	Flame retardant	QS9112	Non Flowable	White	Paste	20	1.46	40	25	210	V0
	Heat resistancy	QS9113	Flowable	Red, Black	28	23	1.07	20	19	300	HB
		QS9114	Non Flowable	Red, Black	Paste	30	1.30	23	20	350	HB
		QS9115	Semi Flowable	Black	210	10	1.34	40	20	210	HB
	Coating	QS9122	Flowable	Transparent	12	40	1.02	5	10	400	
		SS4100		Red, Black	40	20	1.03	15	14	300	HB
		QS9177		Transparent, White, Black	12.5	20	1.03	15	14	300	HB
	FIPG	QS9144	Non Flowable	White, Gray, Red	Paste	8	1.09	23	20	450	
	General Purpose	QS9118	Non Flowable	White	Paste	30	1.35	30	24	500	HB
		QS9119		White, Black, Gray	Paste	45	1.35	30	22	500	HB
SS4080		White		Paste	30	1.45	30	24	400	HB	
SS7972		Semi Flowable		White	150	10	1.70	70	60	70	V0
SS7973		Flowable		White	100	10	1.33	60	40	140	V0
SS7970		Flowable		White, Gray	20	7	1.17	24	16	230	V0
SS7870				White	18	4	1.19	22	13	210	
SS7981				Transparent, White, Black	1.1	10	1.00	24	10	140	
SS7945		Semi Flowable		White	30	10	1.34	15	14	200	V0
Conformal Coating		SS40001		Flowable	Transparent, White, Black	6	15	1.02	20	12	250
	SS7065	Transparent	0.12		5	0.96	32	NA	NA	V0	
	SL8104	Transparent	0.7		-	1.00	36	24	110	V0	
Coating & Adhesive	SS7944	Semi Flowable	Transparent	20	10	1.03	28	NA	NA	V0	
	SS7988	Non Flowable	Black, Gray	Paste	10	1.36	25	22	600	HB	
Thermal conductive sealing	SL3935	Non Flowable	Gray	Paste	-	2.8	95	60	20		
	SS7855	Non Flowable	White	Paste	5	2.5	85	45	20	V0	
Heat Cure	SL3130	Flowable	Beige	105	-	1.28	40	35	230		

Classification	Uses	Product name	Uncured properties			Cured properties			
			Viscosity 25 °C mPa.s{cP}	Pot Life 25 °C 50 %RH	Soild content(%)	Specific gravity 25 °C	Tensile strength (kgf/cm²)	Elongation (%)	Dielectric strength (kV)
Resin	Protection for electronic pieces	SJ6000P	1,000	-	70	1.01	25~35	31	-
		SJ6001P	100	-	60	1.01	25~35	31	-
Gel		SL5230	450	-	-	0.98	NA	NA	20

RTV-2

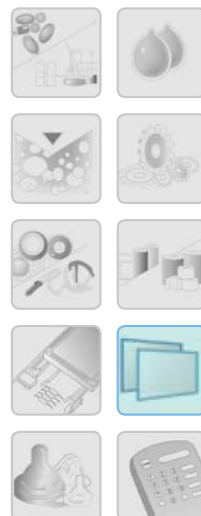
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RTV-2 is two-component room temperature vulcanizing silicone. Depending on its curing mechanism, two types of RTV-2 are available- a condensation cure type and an addition cure type. The condensation cure type is strongly dependent on the catalyst and produces by-products like alcohol, while the addition cure type is dependent on temperature and produces no by-products. RTV-2 is capable of deep section cure and its cure rate can be controlled. Also, it provides excellent electrical insulation, heat resistance, cold resistance, weatherability, and impact absorption, as the unique features of silicones. These properties result in superior ease of use for various applications and improvement of the quality and productivity of finished products. RTV-2 is used primarily as electrical insulating and potting materials for electrical and electronics, vacuum casting mold and various forming molds.

Classification	Uses	Product name	Uncured properties		Cured properties						
			Viscosity (25 °C) Pa.s	Pot Life 25 °C 50 %RH	Durometer shore A	Specific gravity (25 °C)	Tensile strength (kgf/cm ²)	Elongation (%)	Mix ratio A:B		
RTV-2	Condensation	Moldmaking	SS1500A/B	35	60 min	30	1.10	30	300	10 : 1	
			SS1501A/B	25	60 min	30	1.10	35	300	10 : 1	
		Potting	SS1080A/B	3	60 min	23	1.02	13	110	10 : 1	
	SS3000A/B		4	60 min	15	1.30	20	280	20 : 1		
	Addition	Sealing	SS2080A/B	128	30 min	35	1.36	18	380	10 : 1 (vol.), 11 : 1 (wet.)	
		Cable coating	SL2000A/B	110	900 min	35	1.09	49	550	10 : 1	
			SL2551A/B	26	85 min	23	1.07	35	500	10 : 1	
		Moldmaking	SL2501A/B	55	60 min	40	1.07	65	450	10 : 1	
			SL2560A/B	140	60 min	60	1.24	65	150	10 : 1	
			SL2541A/B	140	60 min	70	1.28	75	170	10 : 1	
		General Potting	SL3000A/B	2.3	40 min	42	1.25	20	110	1 : 1	
		Self adhesive potting	SL3301A/B	1.1	3 day	40	1.24	20	110	1 : 1	
			SL3302A/B	3.3	1 day	60	1.50	20	70	1 : 1	
		Protection for electronic Parts (gel type)	SL5100A/B	1.0	2 hours	needle : 20, 1/4 cone : 4.8	0.98	NA	NA	1 : 1	
			SL5110A/B	1.1	1 hours	needle : 32, 1/4 cone : 5.8	0.98	NA	NA	1 : 1	
			SL5150A/B	1.0	2 hours	needle : 33, 1/4 cone : 6.3	0.98	NA	NA	1 : 1	
			Thermal conductive potting	SL3905A/B	8.0	3 hours	75	2.10	NA	NA	1 : 1
				SL2600A/B	65	1 day	40	1.07	63	380	10 : 1
Sleeve Coating			SC5000A/B/C	22	3 day	39	1.06	45	250	100 : 6	
	SL9940A/B		45	1 day	46	1.09	73	420	10 : 1		
Textile Coating	SL9950A/B		45	3 day	43	1.09	73	420	10 : 1		
	3359A/SK0010C		40	16 hours	20	1.06	40	700	100 : 0.1		
	SL3359A/B	40	16 hours	20	1.06	40	600	100 : 1			
	SL3310A/B	100	3 day	5	1.06	30	1000	1 : 1			
	SL3331A/B	40	3 day	35	1.00	30	250	10 : 1			
	SL3040A/B	20	3 day	38	1.22	20	200	10 : 1			
SL9905A/B	15	3 day	57	1.02	68	124	1 : 1				
SL9907A/B	15	3 day	70	1.04	80	130	1 : 1				

*SC5000C-Crosslinker for the fast curing



Classification	Uses	Product name	Viscosity (25 °C) Pa.s	Pot Life 25 °C 50 %RH	Durometer shore A	Specific gravity (25 °C)	Tensile Strength(MPa)	Elongation (%)	Refractive index
RTV-2	Dispensing type LED Encapsulant	NCRP-25A/B	3.2	24 hours	74	1.04	4.0	50	1.41
		SL3815A/B	5.3	12 hours	67	1.04	8.0	75	1.41
		SL3825A/B	3	12 hours	35(Shore D)	1.18	1.5	100	1.54
	Molding type LED Encapsulant	SL3870A/B	27	72 hours	72	1.04	10.0	80	1.41
		SL3875A/B	48	72 hours	70	1.04	7.5	220	1.41
		SL3877A/B	100	72 hours	75	1.04	7.5	100	1.41
	SL3880A/B	55	72 hours	75	1.04	8.0	200	1.41	
		Primer for LED Encapsulant	SL3100AB	-	48 hr	-	0.96	-	-
	Optical Potting	SL3500A/B	40	3 day	55	1.03	60	300	1.40
		SL3800A/B	4	4 hours	55	1.03	50	150	1.40

LSR

LSR(Liquid Silicone Rubber) is heat curing rubber and injection molding silicone rubber. Because LSR is based on liquid phase, it can be cured through liquid injection molding automatically. Thanks to liquid injection molding, customers can get higher productivity, cost effectiveness, and delicate articles production. Also LSR has no by-products and good mechanical properties. Therefore HTV and organic rubber are being replaced with LSR in many applications.

KCC SILICONE Moving Forward through Quality & Technology



Classification	Product code	Main application	Before curing		Mixing ratio (PTA:PTB)	Physical properties***								Electrical properties				Remarks		
			Appearance	Viscosity* (Pa.s)		Hardness (Shore A)	Tensile strength (MPa)	Elongation (%)	Tear strength (N/mm)	Specific gravity	Compression set(%) (177 °C, 22hr) after post cure (200 °C, 4hr)	Linear shrinkage (%) after post cure (200 °C, 4hr)	Volume resistivity (Ω cm)	Dielectric resistance (kV/mm)	Tracking resistance (kV)	Arc resistance (sec)				
				PTA													PTB			
1. General purpose	SL7210AB	General purpose	Translucent	150	150	1 : 1	12	4.7	1200	12	1.08	20	-	-	-	-	-	-		
	SL7220AB	General purpose	Translucent	220	220	1 : 1	20	6.5	950	30	1.11	20	-	-	-	-	-	-		
	SL7230AB	General purpose	Translucent	310	310	1 : 1	30	7.0	800	35	1.11	25	-	-	-	-	-	-		
	SL7240AB	General purpose	Translucent	330	330	1 : 1	40	8.5	750	35	1.12	25	-	-	-	-	-	-		
	SL7250AB	General purpose	Translucent	350	350	1 : 1	50	9.5	700	30	1.13	25	-	-	-	-	-	-		
	SL7260AB	General purpose	Translucent	330	330	1 : 1	60	9.5	600	35	1.13	20	-	-	-	-	-	-		
	SL7270AB	Cake molds, Tubes, Hose	Translucent	300	300	1 : 1	67	9.5	500	35	1.13	25	-	-	-	-	-	-		
	SL7280AB	General purpose	Translucent	350	350	1 : 1	75	7.5	300	10	1.13	35	-	-	-	-	-	-		
	SL7340AB	General purpose	Translucent	300	300	1 : 1	40	9.5	800	35	1.12	30	-	-	-	-	-	-	More transparent than SL7240AB	
	SL7450AB	General purpose	Translucent	300	300	1 : 1	50	9.5	750	30	1.12	20	-	-	-	-	-	-		
	SL7901AB	General purpose	Translucent	280	280	1 : 1	27	7.0	900	35	1.11	25	-	-	-	-	-	-		
	SL8070AB	Keypads	Translucent	220	220	1 : 1	70	9.0	270	36	1.12	-	-	-	-	-	-	-		
2. Coating	SL7740AB	Textile coating	Translucent	120	120	1 : 1	37	3.5	400	15	1.08	-	-	-	-	-	-	-		
	SL9100AB	Textile coating	PTA : Translucent / PTB : Transparent	60	5**	10 : 1	36	4.6	450	20	1.07	-	-	-	-	-	-	-		
	SL9200AB	Glass fiber coating	PTA : Translucent / PTB : Transparent	75**	6.5**	10 : 1	33	3.5	350	10	1.07	-	-	-	-	-	-	-		
	SL9300AB	Textile coating	PTA : Translucent / PTB : Light yellow	90	0.2**	100 : 0.3	40	7.0	500	25	1.10	-	-	-	-	-	-	-		
	SL9301AB	Textile coating	PTA : Translucent / PTB : Transparent	30	25	1 : 1	36	5.0	450	20	1.09	-	-	-	-	-	-	-		
	SL9340AB	Cable joint, Sleeve coating	Translucent	75	75	1 : 1	40	7.0	650	22	1.08	-	-	1x10 ¹⁵	23	1A 4.5kV	420	-		
	SL9503AB	Textile coating	Transparent	3**	50**(mPa·s)	10 : 1	50	5.5	100	15	1.01	-	-	-	-	-	-	-		
3. High Voltage Insulator	SL8601AB	HVI	PTA : White / PTB : Translucent	65	65	1 : 1	42	6.0	550	20	1.08	-	-	1x10 ¹⁵	25	1A 4.5kV	420	-		
	SL8601AB	HVI	PTA : Grey / PTB : Translucent	65	65	1 : 1	42	6.0	550	20	1.08	-	-	1x10 ¹⁵	25	1A 4.5kV	420	-		
	SL8601AB	HVI	PTA : Light grey / PTB : Translucent	65	65	1 : 1	42	6.0	550	20	1.08	-	-	1x10 ¹⁵	25	1A 4.5kV	420	-		
	SL8603AB	HVI	PTA : Grey / PTB : Translucent	320	320	1 : 1	38	11.0	930	34	1.13	-	-	1x10 ¹⁵	25	1A 4.5kV	420	-		
	SL8609AB	HVI	Grey	190	190	1 : 1	50	9.0	650	30	1.11	-	-	1x10 ¹⁵	25	1A 4.5kV	420	-		
	SL8652AB	Cable joint, Semi-conductive material	Black	470	470	1 : 1	40	8.0	580	28	1.10	-	-	-	-	-	-	-	Volume resistivity : 45 Ωcm	
4. Specialty	SL8150AB	Optical lens, Nose pad, Keypads	Transparent	45	40	1 : 1	55	5.5	350	25	1.03	-	-	-	-	-	-	-		
	SL8160AB	Optical lens, Nose pad, Keypads	Transparent	80	40	1 : 1	65	6.0	300	30	1.04	-	-	-	-	-	-	-		
	SL8170AB	Optical lens, Nose pad, Keypads	Transparent	60	35	1 : 1	70	6.5	100	10	1.04	-	-	-	-	-	-	-		
	SL8301AB	OA roller	Reddish brown	160	160	1 : 1	37	3.0	320	-	1.29	10	-	-	-	-	-	-	Thermal conductivity : 0.4 W/mK	
	SL8305AB	OA roller	Reddish brown	80	80	1 : 1	5	1.0	500	-	1.24	7	-	-	-	-	-	-	Thermal conductivity : 0.3 W/mK	
	SL8310AB	OA roller	Reddish brown	80	80	1 : 1	10	1.1	450	-	1.24	7	-	-	-	-	-	-	Thermal conductivity : 0.3 W/mK	
	SL8315AB	OA roller	Reddish brown	80	80	1 : 1	15	1.3	400	-	1.24	8	-	-	-	-	-	-	Thermal conductivity : 0.3 W/mK	
	SL8331AB	Thermal conductive OA roller	Dark brown	160	160	1 : 1	65	2.5	50	-	1.50	8.5	-	-	-	-	-	-	Thermal conductivity : 1.05 W/mK	
	SL8534AB	Connector seal, Wire seal, O-rings	Milky white	400	400	1 : 1	30	8.0	800	20	1.10	15	-	-	-	-	-	-	-	Oil content : 4 % / Post cure : 200 °C, 4H
	SL8543AB	Connector seal, Wire seal, O-rings	Milky white	400	400	1 : 1	40	10.0	900	35	1.13	22	-	-	-	-	-	-	-	Oil content : 3 % / Non-post cure
	SL8545AB	Connector seal, Wire seal, O-rings	Milky white	400	400	1 : 1	40	8.0	850	32	1.3	27	-	-	-	-	-	-	-	Oil content : 5 % / Non-post cure
	SL8551AB	Connector seal, Wire seal, O-rings	Milky white	400	400	1 : 1	50	9.0	750	40	1.13	26	-	-	-	-	-	-	-	Oil content : 1 % / Non-post cure
	SL8552AB	Connector seal, Wire seal, O-rings	Milky white	400	400	1 : 1	50	9.0	800	40	1.13	19	-	-	-	-	-	-	-	Oil content : 2 % / Non-post cure
	SL8554AB	Connector seal, Wire seal, O-rings	Milky white	400	400	1 : 1	50	9.0	800	40	1.13	20	-	-	-	-	-	-	-	Oil content : 4 % / Non-post cure
	SL9800AB	Primer for keypads	PTA : Translucent / PTB : Transparent	10**	20** (mPa·s)	10 : 1	-	-	-	-	-	-	-	-	-	-	-	-	-	Solvent : Toluene
	SL9801AB	Primer for keypads	PTA : Translucent / PTB : Transparent	10	20** (mPa·s)	10 : 1	-	-	-	-	-	-	-	-	-	-	-	-	-	Solvent : Silicone fluid
SL9805AB	Silicone primer	PTA : Brown / PTB : Transparent	350 (mPa.s)	3 (mPa.s)	9 : 1	-	-	-	-	-	-	-	-	-	-	-	-	-	Solvent : Hydro carbon	
SL9805AB(S)	Silicone primer	PTA : Brown / PTB : Transparent	400 (mPa.s)	3 (mPa.s)	9 : 1	-	-	-	-	-	-	-	-	-	-	-	-	-	Solvent : Hydro carbon	

* Viscosity(C/P : Cone and Plate type viscometer) : Shear rate 10^{s-1}, 25 °C
 ** Viscosity : Rotational viscometer(Brookfield Viscometer HBDV Type), 25 °C
 *** Sheet curing conditions : press cure at 170 °C / 10 min



HTV

KCC SILICONE

HTV is a special synthetic silicone elastomer which consists of silicone gums having combined properties of organic and inorganic materials and high purity silica. Compared to other organic elastomers, HTV offers superior and excellent properties, such as heat and cold resistance, chemical resistance, ozone resistance, flame retardance, gas permeability, physiological inert and electrical insulating performance. It is widely used in most of all industries including electrical & electronics, automotive, food contact, healthcare, construction and other industries..

- 1) C : Compressing, I : Injection, T : Transferring, E : Extruding, Ca : Calendring
- 2) Addition amount for Silicone rubber compound 100 part
- 3) Physical properties are able to change according to kinds of the curing agent.
- 4) Heat and oil aged properties are measured by upper curing condition
- 5) Change point
- 6) Change (%)
- 7) Heat aged 250 °C / 168hr
- 8) Heat aged 220 °C / 72hr
- 9) Heat aged 225 °C / 70hr
- * Standard curing agent
 - KC-2 : 2,4-dichlorobenzoyl peroxide 50 % paste
 - KC-8 : 2,5-dimethyl 2,5-di (t-butyl peroxy) hexane 45 % paste



Classification	Application	Product name	1) Processing	Appearance [ASTM E1767]	Williams plasticity (During 5 min after remilling) [ASTM D926]	Specific gravity (25 °C) [ASTM D792]	Typical curing agents		Curing condition		3) Physical property										4) Heat aged (250 °C / 72hr) [ASTM D573]				Oil aged (IRM903 Oil, 150 °C / 72hr) [ASTM D 471]				Electrical Property		Remarks
							* Code	2) Standard addition amount	Press cure (°C/min)	Post cure (°C/hr)	Shore A hardness [ASTM D2240]	Tensile strength (MPa)		Elongation (%)		Tear strength (N/mm)		Linear shrinkage (%) [JIS K6249]	Resilience (%) [ASTM D1054]	Compression set (75°C/22hr) (%) [ASTM D335]	5) Hardness change point	6) Tensile strength change (%)	6) Elongation change (%)	5) Hardness change point	6) Tensile strength change (%)	6) Elongation change (%)	6) Volume expansion (%)	Dielectric strength (kV/mm) [ASTM D149]	Volume resistivity (Ω · cm) [ASTM D257] [ASTM D991]		
												ASTM D 412	DIN 53504-52	ASTM D 412	DIN 53504-52	ASTM D 624 C	ASTM D 624 B														
General Purpose for Molding	O-ring, Gasket, OA roller, Oil filter, Diaphragm, Keypad Kitchenware	SH0030U	C,I,T,Ca	Translucent	130	1.10	KC-8	0.5	170/10	200/4	30	7.5		900		20	13	4.4	58	15	-10	-40	-26	-	-	-	-	23	1×10 ¹⁵		
		SH0040U			160	1.13	KC-8	0.5	170/10	200/4	40	8.0		700		24	14	4.4	63	16	-10	-27	-3	-14	-49	-22	+36	22	8×10 ¹⁴		
		SH0050U			180	1.15	KC-8	0.5	170/10	200/4	50	9.0		500		26	13	4.2	63	16	-7	-26	-7	-17	-35	-6	+35	24	1×10 ¹⁵		
		SH0060U			220	1.25	KC-8	0.5	170/10	200/4	60	8.0		480		25		3.6	52	14	-7	-24	-14	-17	-23	-4	+28	23	5×10 ¹⁴		
		SH0070U		250	1.32	KC-8	0.5	170/10	200/4	70	7.2		340		22		3.4	49	14	-4	-18	-27	-16	-15	0	+26	24	5×10 ¹⁴			
		SH0080U		270	1.42	KC-8	0.5	170/10	200/4	80	4.8		240		17		3.3	44	25	+1	-18	-28	-16	-15	-16	+27	23	5×10 ¹⁴			
		SH5060U		210	1.18	KC-8	0.5	170/10	200/4	60	8.5		400		27	13	4.2	58	16	-6	-24	-7	-15	-30	-4	+32	24	3×10 ¹⁵			
		SH5070U		250	1.20	KC-8	0.5	170/10	200/4	70	8.3		300		24	11	4.2	57	17	-6	-22	-5	-13	-28	-5	+30	24	2×10 ¹⁵			
	SH5180U	300	1.22	KC-8	0.5	170/10	200/4	80	7.7		200		24	13	4.2	50	15	2	-20	-48	-20	-14	-14	+30	24	2×10 ¹⁴					
	Key pad, Food packing, Gasket	SH5260U	E,C,I,T	Translucent	220	1.18	KC-8	0.5	170/10	200/4	60	9.0		350		25	13	4.1	59	16	8) 0	8) -11	8) -23	-19	-15	-18	+28	24	3×10 ¹⁵		
		SH5960U			240	1.18	KC-8	0.5	170/10	200/4	60	9.7		400		26	11	4.0	62	19	8) 2	8) -21	8) -30	-17	-15	-9	+18	24	3×10 ¹⁵		
	O-ring, Gasket, OA roller, Oil filter, Diaphragm, Keypad Kitchenware	SH0830U	C,I,T	Translucent	130	1.10	KC-8	0.5	170/10	200/4	30	6.3		700		16		4.2	56	25	-20	-59	-20	-15	-57	-46	+56		2.5×10 ¹⁵		
		SH0840U			160	1.13	KC-8	0.5	170/10	200/4	40	7.3		550		20		4.1	61	19	-14	-34	0	-10	-41	-29	+47		1.0×10 ¹⁵		
		SH0850U			190	1.16	KC-8	0.5	170/10	200/4	50	7.5		420		22		4.0	62	18	-8	-30	-3	-20	-39	-28	+42		8.3×10 ¹⁴		
SH5860U		210			1.18	KC-8	0.5	170/10	200/4	60	7.6		210		19		4.0	70	8	-2	-15	-10	-17	-19	-24	+36		1.0×10 ¹⁵			
General Purpose for Extruding	Hoses, Tubings, Gasket, Seals, Profiles, Sheets kitchenware, Food packing Wire & cable base	E,C,I,T	Transparent	SH1021U	150	1.09	KC-2	1.5	120/5	200/4	30	7.0	7.2	610	600	16	13	3.3		53								24	1.6×10 ¹⁶		
				SH1030U	160	1.10	KC-2	1.5	120/5	200/4	30	7.0	7.3	620	580	17	14	3.4		54									24	1.8×10 ¹⁶	
				SH1032U	150	1.10	KC-2	1.5	120/5	200/4	38	7.0	7.3	550	530	22	13	2.9		35									25	1.7×10 ¹⁶	
				SH1040U	150	1.11	KC-2	1.5	120/5	200/4	40	7.0	7.5	450	450	23	10	2.8		33	8) -4	8) -29	8) -33	-20	-56	-37	+53	23	1.7×10 ¹⁶		
				SH1041U	160	1.12	KC-2	1.5	120/5	200/4	45	9.0	9.0	550	530	29	18	2.8		34									22	2.7×10 ¹⁶	
				SH1050U	180	1.13	KC-2	1.5	120/5	200/4	50	9.0	9.5	420	400	25	17	2.8		37	8) +3	8) 0	8) -12	-15	-53	-18	+44	22	2.1×10 ¹⁵		
				SH1060U	220	1.16	KC-2	1.5	120/5	200/4	60	10.3	11.3	350	350	25	15	2.7		31	8) +3	8) -18	8) -33	-18	-61	-50	+42	27	1.6×10 ¹⁵		
				SH1061U	210	1.16	KC-2	1.5	120/5	200/4	60	11.0	11.0	250	300	30	18	2.5		32									28	4.4×10 ¹⁶	
				SH1070U	270	1.19	KC-2	1.5	120/5	200/4	70	10.4	11.0	300	300	25	18	2.8		29	8) +3	8) -26	8) -39	-18	-23	-14	+36	26	3.8×10 ¹⁵		
				SH1072U	270	1.18	KC-2	1.5	120/5	200/4	70	11.0	10.0	300	310	29	15	2.6		28									27	4.0×10 ¹⁶	
SH1073U	270	1.20	KC-2	1.5	120/5	200/4	70	10.5		460		30	20	2.8		38									28	1.0×10 ¹⁵					
SH1080U	290	1.20	KC-2	1.5	120/5	200/4	80	9.7		270		23	9	2.8		33	8) +4	8) -10	8) -53	-17	-28	-11	+29	22	7.1×10 ¹⁴						
Low Hardness	Swimming goods Baby care articles High elastic articles	C,I,T	Transparent	SH0005U	120	1.03	KC-8	0.5	170/10	200/4	9	2.5		1,300		7		4.4		47											
				SH1020U	110	1.08	KC-8	0.5	170/10	200/4	20	6.0		1,300		18		4.3		56											
			Translucent	SH0010U	90	1.06	KC-8	0.5	170/10	200/4	10	4.0	4.5	1,250	1,100	9		4.3		26											
				SH0020U	120	1.08	KC-8	0.5	170/10	200/4	20	6.0		1,250		15		4.3		18											
High Hardness	High hardness articles Food contact articles	C,I,T	Translucent	SH5190U	280	1.25	KC-8	1.0	170/10	200/4	90	8.5		70		20		4.6		20											
				SH1090U	340	1.23	KC-8	1.0	170/10	200/4	90	9.5		200		28		4.4		19											
Heat Resistant & High Tear Strength	Rubber labels textile, Spin-casting, Gaskets, Automotive articles	C,I,T	Transparent	SH7340U	150	1.12	KC-8	0.5	170/10	200/4	40	10.0		1,150		45	37	4.4		24	8) -2	8) -28	8) -25								
				SH7255U	195	1.16	KC-8	0.5	170/10	200/4	60	10.3	10.2	1,100	990	49	39	4.3		29	8) +2	8) -19	8) -23	-22	-29	-17	+38	27	4×10 ¹⁶		
High Tear Strength		C,I,T	Transparent	SH7060U	200	1.16	KC-8	0.5	170/10	200/4	60	9.5		800		40	36	4.4		26	8) +6	8) -33	8) -38								
				SH7070U	240	1.18	KC-8	0.5	170/10	200/4	70	9.0		700		42	42	4.5		28	8) +5	8) -28	8) -36								
Low Compression Set	OA Roller Packings, Gaskets, O-rings, Seals	C,I,T	Translucent	SH2533U	110	1.04	KC-8	1.0	170/10	200/4	33	1.7		240		8.5	3	4.7	85	7	-10	-32	+5								
				SH2540U	140	1.10	KC-8	1.0	170/10	-	40	7.0		630		25		3.7	67	13	-5	-20	+9								
				SH2580U	250	1.43	KC-8	1.0	170/10	-	80	7.2		130		18		3.0	53	10	+5	-30	-50								
Steam Resistant	O-rings, Gasket, Parts for Steam rice cooker, Steam iron, Autoclave Jar pot, Automotive	C,I,T	Light yellow	SH6050U	170	1.13	KC-8	0.5	170/10	200/4	50	8.0		600		33		4.2		10	+1	-7	-29	-18	-40	-30	+44				
				SH6060U	220	1.15	KC-8	0.5	170/10	200/4	60	10.0		630		32		4.0		13	+1	-24	-35	-23	-30	-20	+42				
				SH6070U	210	1.17	KC-8	0.5	170/10	200/4	70	8.0		200		15		4.0		6	-1	-33	-23	-14	-23	-19	+32				
Electrically Conductive	OA roller, Sheets, Pads EMI gasket, Keypad contacts	C,I,T,Ca	Black	SH6540U	200	1.08	KC-8	2.0	170/10	200/4	40	4.5		700		24		4.7										45			
				SH6560U	580	1.17	KC-8	2.0	170/10	200/4	60	6.7	6.6	520	450	28		4.5											9.0		
				SH6570U	730	1.19	KC-8	2.0	170/10	200/4																					

HTV

HTV is a special synthetic silicone elastomer which consists of silicone gums having combined properties of organic and inorganic materials and high purity silica. Compared to other organic elastomers, HTV offers superior and excellent properties, such as heat and cold resistance, chemical resistance, ozone resistance, flame retardance, gas permeability, physiological inert and electrical insulating performance. It is widely used in most of all industries including electrical & electronics, automotive, food contact, healthcare, construction and other industries.



KCC SILICONE

Classification	Application	Product name	1) Processing	Appearance [ASTM E1767]	Williams plasticity (During 5 min after remilling) [ASTM D926]	Specific gravity (25 °C) [ASTM D792]	Typical curing agents		Curing condition		3) Physical property										4) Heat aged (250 °C / 72hr) [ASTM D573]				Oil aged (IRM903 Oil, 150 °C / 72hr) [ASTM D471]				Electrical Property		Remarks		
							* Code	2) Standard addition amount	Press cure (°C/min)	Post cure (°C/hr)	Shore A hardness [ASTM D2240]	Tensile strength (MPa)		Elongation (%)		Tear strength (N/mm)		Linear shrinkage (%) [JIS K6249]	Resilience (%) [ASTM D1054]	Compression set (75 °C / 24hr) (%) [ASTM D395]	5) Hardness change point	6) Tensile strength change (%)	6) Elongation change (%)	5) Hardness change point	6) Tensile strength change (%)	6) Elongation change (%)	6) Volume expansion (%)	Dielectric strength (kV/mm) [ASTM D149]	Volume resistivity (Ω · cm) [ASTM D257] [ASTM D991]				
Thermal Conductive	Heat spread pad, Sheet, Cap	SH6280U	E,C,I,T	Dark Grey	290	2.17	KC-8	0.5	170/10	200/4	80	4.6		130		11		2.8		12	+1	-10	-13	-19	-27	-5	+7	26	3 × 10 ¹⁴	UL94V-0			
Flame Retardant	High Voltage cap, Backlight holder, Special wire & cable Fire-proof gasket	SH1520U	E,C,I,T	Dark Grey	200	1.44	KC-8	0.5	170/10	200/4	60	7.8		500		23		3.8		15	+13	-33	-65	-10	-22	-9	+33	24	9 × 10 ¹⁵	UL94V-0			
		SH1550U		White	200	1.42	KC-8	0.5	170/10	200/4	55	8.7		450		23		3.8										26	3 × 10 ¹⁶	UL94V-0			
		SH1572U		White	220	1.48	KC-2	1.5	120/5	200/4	70	7.5		200		16		2.2											24	3.4 × 10 ¹⁵	UL94V-0		
		SH1573U		Ivory	210	1.44	KC-2	1.5	120/5	200/4	70	7.0		200		15		2.5															
		SH1580U		Dark Grey	220	1.45	KC-8	0.5	170/10	200/4	80	7.3		240		22		4.0															
Wire and Cable	General grade for wire & cable	SH1160U	E,C,I,T	White	200	1.40	KC-2	1.5	120/5	200/4	60	8.0		360		23		2.2			+1	-13	-7					27	2 × 10 ¹⁵				
		SH1170U		Beige	200	1.40	KC-2	1.5	120/5	200/4	70	8.0		250		20		2.0			+1	-15	-6					28	1 × 10 ¹⁵				
	SH1270U	White		230	1.33	KC-2	1.5	120/5	200/4	70	8.0		320		24		2.0			7) +5	7) -20	7) -35					30	1.3 × 10 ¹⁶					
	SH1770U	White		220	1.55	KC-2	1.5	120/5	200/4	70	7.5		150		13		1.6										29	1.5 × 10 ¹⁶					
Extrudable base	Seals, Profiles, Sheets, Gaskets, Hose, Tubings, Kitchenwares	SH1940U	E,C,I,T	Transparent	170	1.11	KC-2	1.5	120/5	200/4	45	9.5	8.8	420	370	29	13	2.6		42	9) +2	9) -12	9) -23										
		SH1970U			270	1.17	KC-2	1.5	120/5	200/4	70	10.5	10.5	350	300	33	14	2.2															
High Voltage Insulator	High voltage insulator, Surge arrester, Connectors	SH4001Z	C,I,T	Dark Grey	240	1.55	-	-	170/10	-	65	3.8		420		16		3.0									26	2.3 × 10 ¹³	Tracking resistance 4.5 kV				
Oil Bleed	Wire harness connectors Grommets, Connector seal, Oil seal, O-ring, Gaskets	SH9030U	C,I,T	Milky White	150	1.13	KC-8	0.5	170/10	200/4	30	8.5		900		19		4.4		24	8) -2	8) -5	8) -7	-19	-47	-20	+50						
		SH9035U			175	1.15	KC-8	0.5	170/10	200/4	32	9.5		800		21		4.1		25	8) -3	8) -20	8) -20	-14	-38	-16	+38						
		SH9040U			175	1.15	KC-8	0.5	170/10	200/4	40	8.5		900		22		4.4		26	8) -1	8) -14	8) -13	-20	-40	-15	+45						
		SH9050U		170	1.16	KC-8	0.5	170/10	200/4	50	8.5		400		23		4.2		13	8) +2	8) -7	8) -15	-16	-37	-30	+36							
SH9060U	210	1.22	KC-8	0.5	170/10	200/4	60	8.0	7.8	440	450	22		4.1		10	8) +5	8) -12	8) -24	-24	-24	-13	+35										
High Fatigue Resistant	Dynamic keypads, High technical keypads, Automotive key switch	SH9141U	C,I,T	Transparent	150	1.08	KC-8	0.8	170/10	200/4	40	7.0		530		28		4.3	80	12											Fatigue resistant 6,000,000 cycle		
		SH9151U			180	1.11	KC-8	0.8	170/10	200/4	50	8.5		500		30		4.4	78	11											Fatigue resistant 1,500,000 cycle		
		SH9161U			160	1.11	KC-8	0.8	170/10	200/4	60	8.0		250		25		4.2	75	12											Fatigue resistant 1,650,000 cycle		
		SH9181U			300	1.19	KC-8	0.5	170/10	200/4	80	9.5		260		25		4.0	60	13											Fatigue resistant 500,000 cycle		
		SH9182U			270	1.18	KC-8	0.5	170/10	200/4	83	9.5		260		25		3.9	63	13												Fatigue resistant 1,000,000 cycle	
High Transparent, High Strength	High mechanical strength articles, profiles, gaskets Healthcares Food contact articles Transparent tubing, hoses	SH2130U	C,I,T,E	Good Transparent	140	1.10	KC-8	0.5	170/10	200/4	30	9.5		1,500		17	19	4.5		14													
		SH2140U			160	1.12	KC-8	0.5	170/10	200/4	40	11.0		1,000		18	21	4.5		35													
		SH1660U			250	1.17	KC-2	1.5	120/5	200/4	60	11.0		420		27	22	2.5		34													
		SH8260U			250	1.19	KC-2	1.5	120/5	200/4	60	10.5		550		25	21	2.5		36													
SH8270U	290	1.19	KC-2	1.5	120/5	200/4	70	12.0		470		32	27	3.2		35																	
Die Casting	Die casting mold for jewelry, accessory, Utensil (bake ware)	SH7530U	C,I,T	Transparent	140	1.10	KC-8	0.5	170/10	200/4	35	8.6		900		22	13	4.7															
		SH7545U			160	1.12	KC-8	0.5	170/10	200/4	45	7.0		520		23	13	4.2															
		SH7575U			260	1.20	KC-8	0.5	170/10	200/4	75	10.0		500		38	18	4.2															
High Heat Resistant	Heat resistant parts (gasket, packing, etc)	SH7760U	C,I,T	Beige	230	1.16	KC-8	0.5	170/10	200/4	60	10.8		460		32		3.7			0	-21	-20										
		SH7960U			E,C,Ca	Milky White	320	1.17	DCP	0.7	165/15	200/4	60	10.0		430		30		3.8													
		SH7970U					320	1.17	DCP	0.7	165/15	200/4	70	10.5		400		30		3.8													
SH7975U	Transparent	310	1.21	KC-2		1.5	120/5	200/4	75	9.8		250		24		2.4																	
Addition Cure	Packing for food container Hose, Tubing, Healthcare Medical devices	SH1460U	E,C	Transparent	250	1.15	SH0003A SH0002B	1.0 1.0	120/5	200/4	65	9.5	10.0	290	250	25	14	3.0															
		SH2660U			E,C	260	1.18	SH0003A	1.0	120/10	200/4	60	9.5		550		33	35	3.0														
Sponge	Extrudable & molding sponge	SH3055B	E,C,Ca	White	180	1.08	SH0003A	3.0	250/3	200/4	15 (Shore C)																			see the TDS			

1) C : Compressing, I : Injection, T : Transferring, E : Extruding, Ca : Calendring

2) Addition amount for Silicone rubber compound 100 part

3) Physical properties are able to change according to kinds of the curing agent.

4) Heat and oil aged properties are measured by upper curing condition

5) Change point

6) Change (%)

7) Heat aged 250 °C / 168hr

8) Heat aged 220 °C / 72hr

9) Heat aged 225 °C / 70hr

* Standard curing agent

• KC-2 : 2,4-dichlorobenzoyl peroxide 50 % paste
• KC-8 : 2,5-dimethyl 2,5-di (t-butyl peroxy) hexane 45 % paste

Silicone rubber additives

Classification	Product name	Appearance	Specific gravity	2) Use level	Description
Peroxide curing additive for molding	SH0000B	Translucent paste	-	0.4 ~ 1.3	KC-8 : 2,5-dimethyl 2,5-di (t-butyl peroxy) hexane 45 % paste
Peroxide curing additive for extruding	SH0000C	Light yellow paste	-	1.0 ~ 2.0	KC-2 : 2,4-dichlorobenzoyl peroxide 50 % paste
Addition curing additives	SH0003A	Translucent compound	-	1.0 ~ 1.5	Composed of Pt catalyst and inhibitor
	SH0002B	Translucent paste	-	0.5 ~ 1.5	Si-H curing agent which can be cured by Platinum
Flame retardant additive	SH0003B	Opaque paste	1.18	< 30	Improve flame retardant property and possible to pigment to any color desired
Mold release additive	SH0005B	White paste	1.01	0.2 ~ 1.0	Improve mold release ability and roll workability
Anti-blooming additive	SH0006B	Beige paste	1.5	0.4 ~ 0.8	Prevent from blooming after extrusion and possible to pigment to any color desired
Tensile enhancer	SH0007B	White paste	1.1	1.0 ~ 3.0	Enable to increase tensile strength
Heat stabilizer	SH0008B	Light yellow paste	1.18	0.7 ~ 1.3	Improve heat stability and possible to pigment to any color desired