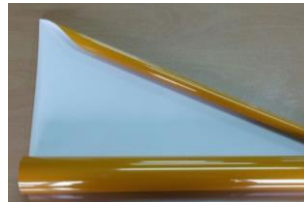
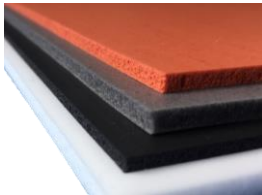


Silicone Products

- Silicone Foam
- Silicone sheet for ACF Bonding
- Silicone Sheet for Hot Press
- Self Fusing Silicone Tape
- Silicone Tape
- Silicone Rubber Gasket



Product Data Sheet

Product Model No.

FOAMSIL

SILICONE Foam

❖ Product Properties

Property	Unit	SF-2000	SF-1000	ST-570	ST-500	ST-520	ST-540
Density	-	0.20	0.25	0.27	0.35	0.45	0.55
Thickness	mm	3.0~15	1.5~20	1.5~20	0.8~20	0.8~10	1.5~10
Compression Force Deflection (25%)	psi	1	3	4	9	17	24
Compression Set (22 hr/at 100°C)	%	< 12	< 5	< 5	< 5	< 5	< 5
Tensile Strength	psi	20	30	27	50	55	65
Elongation	%	80	50	60	50	50	50
Thermal Conductivity	W/mk	0.1 ↓					
Dielectric constant	-	0.87					
Volume Resistivity	Ω-cm	10 ¹⁴					
Continuous use Temperature	°C	-55~200					

❖ Standard Roll Dimension

Model	Color	Thickness(mm)	Width(mm)	Length(m)	Total(m ²)
SF-2000 SF-1000	Black Gray White	~4.0	1,000	20.0	20.0
		~8.0	1,000	15.0	15.0
ST-570/500 ST-520/540	Black Gray Red	~15.0	1,000	6.0	6.0
		~20	1,000	3.0	3.0

❖ Product Image



❖ Applications

- For Cushioning & Absorbing shock in Gasket.
- Using in Electrical parts & Transportation as a vibration absorber
- Heat/Cold-Proof in Electrical equipment.
- Nonflammable / Insulating

Product Data Sheet

Product Model No.

Sheet Type & Tool PAD

Silicone Sheet for ACF Bonding

❖ Product Properties

Properties	Unit	Characteristic Value			Test Method
		PADSIL (for PCB)	CONSIL(for PCB)	ML-SP (for COG & PCB)	
Color	-	BLACK	BLACK	Yellow/White	Visual
Thickness (Standard)	mm	0.2 ~ 0.45	0.2~0.45	0.05 ~ 0.35	-
Width (Standard)	mm	10 ~ 1,300	10 ~ 1,300	15 ~ 1,500	-
Reinforcement	-	-	-	Polyimide Film	-
Hardness	Shore A	70	70	70	ASTM D2240
Specific Gravity	-	1.25	1.40	2.1	ASTM D792
Tensile Strength	Kgf/cm ²	65.0	65.0	250	ASTM D412
Tearing Strength	Kgf/cm	12.0	12.0	25	ASTM D624B
Elongation	%	123	140	114	ASTM D412
Thermal Conductivity	W/mk	0.65	0.7	1.0	ASTM D5470
Heat deflection Temp	°C	420	420	420	-
Volume Resistivity	Ω-cm	10 ¹²	10 ⁶	10 ¹²	ASTM D257

❖ Product Dimension(Standard)

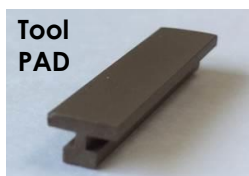
MODEL	Width(mm)	Length(m)	Remark
PADSIL & CONSIL ML-SP Sheet	10 ~ 1,500	5 / 8 / 10 / 20	PIPE width is longer than product(3mm)

※.PIPE

- 1). Diameter and both edge side shape are important for a pipe
- 2). Material of PIPE (Standard) : SUS, Aluminum, PVC, PE, PV, etc...
- 3). PIPE length is basically longer than its actual length (about 3mm)
(Its length is able to be customized)



❖ Product Image



Product Data Sheet	Product Model No. SV-HP *
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Silicone PAD for Hot Press

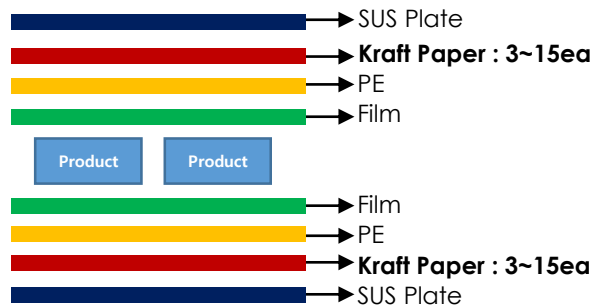
❖ Product Properties

Properties	Unit	HP0801	HP1001	HP1501/1502	HP2501/2502
Thickness	mm	0.8	1.0	1.5	2.5
Color	-	Red	Red	Red	Red
Reinforcement	-	1 layer	1 layer	1&2 layer	1&2 layer
Specific gravity	-	1.4	1.4	1.4	1.4
Hardness	Shore A	80	80	80	80
Elongation	%	< 10	< 10	< 10	< 10
Temperature Range	°C	-50 ~ 200	-50 ~ 200	-50 ~ 200	-50 ~ 200
RoHS Compliant	-	Yes	Yes	Yes	Yes

❖ Application Method

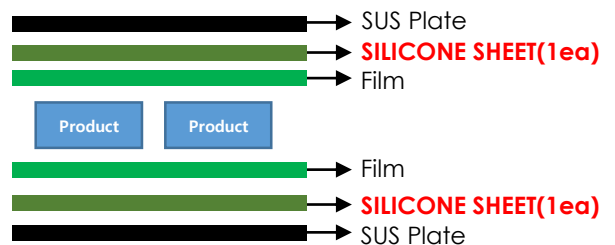
Current Mfg. Condition :

- *Manufacturing condition : 150°C/10hrs
(150°C is hot plate temp.)
- *Many FPCBs covered by kraft papers
(>20papers/layer)
pressed by hot plate during the mfg. process
- *Kraft papers are disposed after 1 time usage

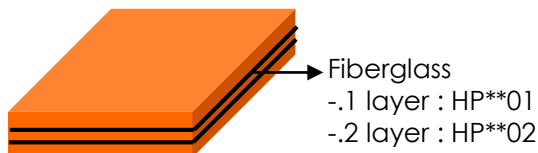


Expected benefits of using Silicone sheet

- *Increase number of usage from 1 time
(Kraft sheet) to >100times (Silicone sheet)
- *Better heat resistance compared to that of Kraft paper
- *Total cost benefits thanks to longer recyclable time up to 100times more than that of Kraft paper



❖ Product Structure



Product Data Sheet	Product Model No. SV-SFS507 *
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Self Fusing Silicone Tape

❖ Product Properties

Property	Unit	Value	Remark
Standard Color	Visual	Black/Blue Red/Yellow	SFS507*
	* : Color Black : B / Blue : L/ Red : R / Yellow : Y		
Thickness	mm	0.2/0.3/0.5/1.0	
Size (Width*Length)	-	20mm*10m	Standard Size
Hardness(Shore)	A Type	55	-
Tensile strength	Kgf/cm ²	85	-
Elongation	%	500	-
Tear Strength	Kgf/cm	16	-
Dielectric Strength	KV/mm	20	-
Volume resistivity	Ω-cm	10 ¹⁵	-
Arc resistance	seconds	60 ↑	Min.
Temperature Range	°C	-50 ~ 260	-
Adhesion(Fusion)	Tape shall not unwind more than 25mm after 3 min. with an attached 600g load.		

❖ Tape Features

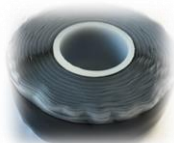
- Excellent arc resistance.
- Excellent track resistances.
- Excellent ozone resistance.
- Excellent conformability
- Excellent instantaneous fusion (does not need to be held down)
- Excellent weathering characteristics.
- High dielectric strength
- Class " H" material (180°C continuous operation)
- Workable at extremely low temperatures

❖ Applications

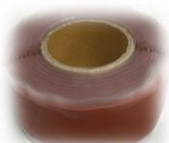
- As an overwrap for protection of terminating high-voltage cables against arcing and tracking.
- As primary insulation where Class "H" (180°C) temperatures are encountered
- As splice overwrap on spacer cable operating at 15KV and above.
- Extension cord "connection" wrapping.
- Insulate harnessing, cabling and wiring in aircraft, automotive, marine and other industrial machinery/equipment
- Offers high dielectric strength, suitable for both high and low voltage applications.

❖ Shelf Life

- Store behind present stock in a clean dry place at temperature 30°C and 40~50% relative humidity.



Black



Red



SV-SFS507***F** : With Protection PE Film

SV-SFS507***N** : Without Protection PE Film

Product Data Sheet	Product Model No.
	SV-SST* / -BST* / -HSR48*

Silicone Tape

❖ Product Properties

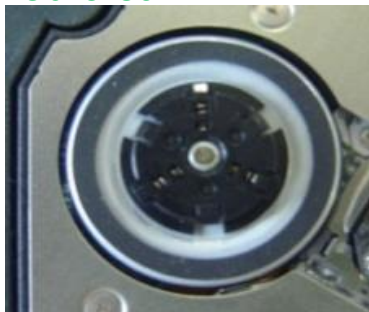
Properties	Unit	All-in-one Type(Silicone & Tape)		SV-HSR48**	Test Method
		SV-SST	SV-BST		
Color	-	Black	Gray	Gray/Black	Visual
Thickness	mm	0.1 ~ 0.5	0.1~0.5	0.5~10	ASTM D374
Width	mm	1,040(-40/+20)	1,040(-40/+20)	150~200	ASTM 3574
Density	g/cm ³	1.25	1.25	1.2	ASTM 3574
Hardness	Shore A	50 ± 5	50 ± 5	45±5	ASTM D2240
Adhesive Force (SUS to Product)	gf/25mm	Over 600	Over 600	Over 600	180° Peeling Test
Tensile Strength	Kg/mm ²	Over 20	Over 20	Over 20	ASTM D882
Use Temp	°C	-20 ~ 120	-20 ~ 120	-20~120	ASTM D746-98
UL Grade	UL94	V-0		V-2	E306107
		Only Silicone Rubber			

[SV-HSR**]

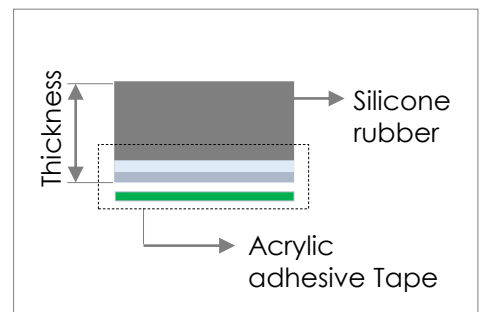
※ This product is made lamination of both side acrylic tape After making silicone sheet.

※ Tape type specification can be discuss with Customer

For HDD Disc Features



For Plastic Chassis Features



Product Data Sheet

Product Model No.

SGR-1355

Silicone Rubber Gasket

1.Characteristics

Silicone rubber SGR-1355 is a material used for molded and extruded parts.

The gaskets are used as an effective environmental sealing.

The material is a platinum cured silicone and the rubber is All color

Silicone rubber can easily stand heat, cold, moisture, UV, ozone and pressure over long times.

Operating temperatures are between -55°C and +200°C.

2.Typical properties

Item	Test Procedure	Unit	Post cured
Base material	-	-	Silicone
Density	ASTM D792	g/cm ³	1.4
Hardness	ASTM D2240	Shore A	50
Tensile strength	ASTM D412	MPa	4.9
Elongation at break	ASTM D412	%	550
Tear strength	ASTM D624	N/mm	13
Compression set 22hr/180°C	ASTM D395	%	60
Flammability	UL94	-	V0

3.RoHS information

SGR-1355 fulfils the requirements set by the EU Directive 2011/65/EU (RoHS).

4.Safety instructions

The SGR-1355 material is suitable for UL94, UL file number OCDT2-E514332.

The silicone SGR-1355 is not dangerous to man or the environment. It is not classified according to Directive EG 1272/2008 (CLP) but a material safety data sheet can be sent on request.

5.Warranty

The recommendations and data given are based on our experience to date, however, no liability can be assumed in connection with their usage and processing. Typical property data should not be used as a specification.

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