



Compo-SiL[®]

Part of your life

Contents

01 About General Silicones

02 Sustainability of Silicone

03 About *Compo-SiL*[®]



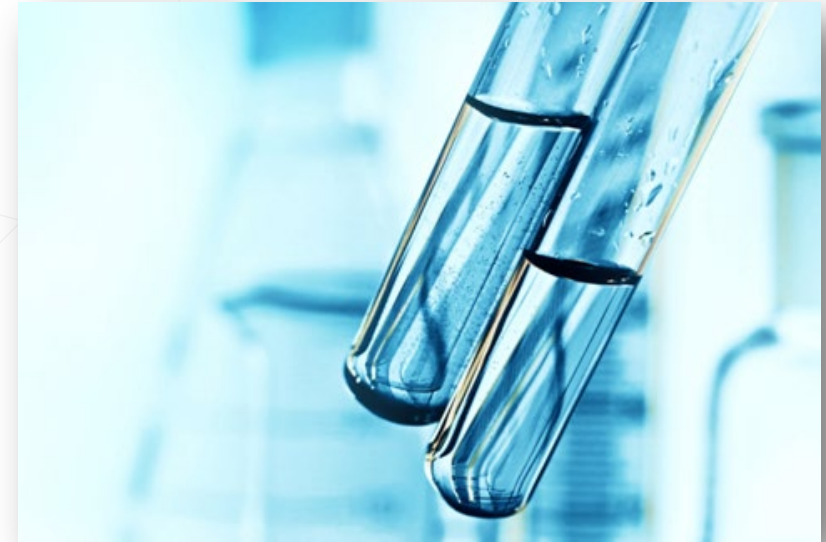
General Silicones Group

Professional Silicone Rubber Solution Provider

General Silicones (GS) was founded in 1970 in Taipei, Taiwan, and is now represented worldwide – including Europe, China, Japan, and South East Asia countries. GS is not only a major distributor of silicone materials, but also an active silicone products manufacturer with ISO 9001, IATF 16949, and ISO 14001 certifications. The company has manufacturing plants in Hsinchu, Taiwan; Wujiang, China; and Bac Giang, Vietnam. With decades of experience in this field, GS has the ability and capacity to provide a wide range of silicone products for many industries including medical, automobile, consumer products, electronics and IT.

What is **Silicone**?

Silicone is an eco-friendly biocompatible non-plastic versatile synthetic polymeric material. It offers a wide range of beneficial features like high temperature resistance, low temperature flexibility, water repellence, anti-fouling, chemical resistance, UV/Ozone & weathering resistance etc. Specially, the incredible durability of silicone products distinguishes itself from other petroleum-based single-use products in respect of lifelong of reusability, hence decreasing the reliance on fossil fuels.

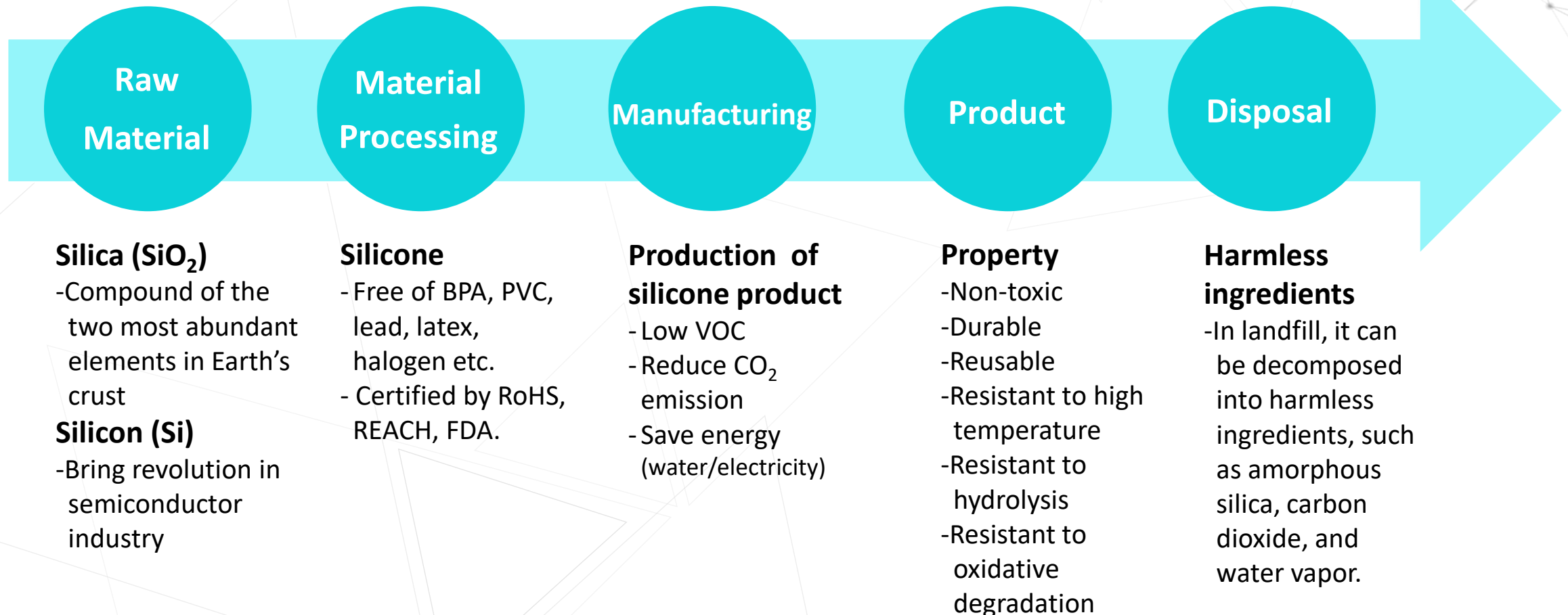




Sustainability of **Silicones**

Silicones are one of the biocompatible man made polymer material derived from silica which is the major constituent of sand. It is a sustainable material being less intruding on environment with reduced CO₂ emission, nominal use of electricity, raw material and water for production in comparison to other plastics.

Life Cycle of Silicone Products



With an experience of over 50 years in silicone materials development and standing by the company's mission of
“**Help improve our life quality, and leave the next generation a pollution-free environment.**”, GS has developed a silicone based composite : *Compo-SiL*[®] .

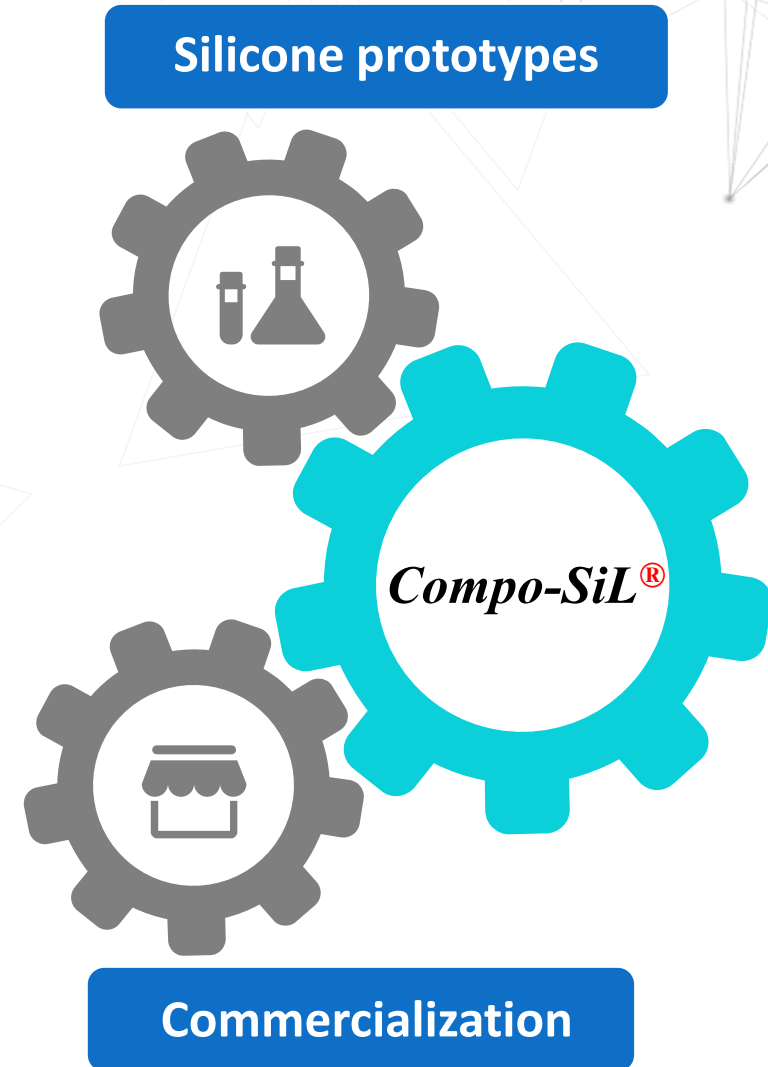
Compo-SiL[®]

Part of your life

General Silicones has developed a better solution for eco-friendly, sustainable, highly durable, printable, laminable and flexible *Compo-SiL*[®] polymer composite substrate that comes with unlimited possibilities as an emerging material.

Why *Compo-SiL*[®] ?

Silicone material gives the advantage of durability, but at the same time makes its applications relatively limited due to its inertness. The composite technology of *Compo-SiL*[®] overcomes this problem, so that the silicone material can be easily displayed on the surface of various materials using various existing adhesives.



Core Value of *Compo-SiL*[®]

Compo-SiL[®] is a breakthrough for silicone, which solves the surface inertia of silicone through chemically composite it with the polyurethane-based modified layer.

Silicone layer



Modified layer(PU)



Motivation for *Compo-SiL*[®]

Property of **Silicone Layer**



Highly Elastic



Waterproof



Glossy Surface



Highly
Transparent



Thermally
Conductive



Highly
Biocompatible



Weather
Resistant



Hydrolysis
Resistant



Electrically
Insulating / Conductive



UV
Resistant

Motivation for *Compo-SiL*[®]

Property of **Modified Layer**



Printable



Laminable



PU foam



High temperature
resistant



Adherable

Product series

Vegan Silicone Leather



Vegan Silicone Leather can deliver exquisite sensation, while offering high-level customized specifications with a diversity of color choices, surface patterns, textures, and additional valuable functionalities.

Silicone Composite Film



Silicone Composite Film has a modified layer above silicone which provides a solution of textile binding ability, printability, and laminability at once. Some of its kinds include transparent & translucent films, conductive & flame retardant films, printable and skin films.

Flame Retardant



Flame retardant silicone sheet can be bonded with different flame resistant fabric. It not only fulfills the requirement of UL 94-V0 standard, but also shows excellent properties of flame retardant, chemical resistant, high temperature resistant, electrical insulation, etc.

Applications

Textile Industry



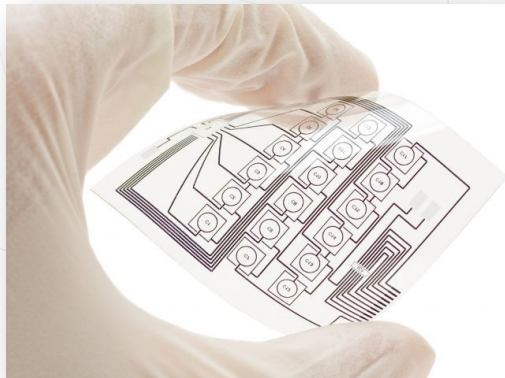
Transportation



Medical & Healthcare



Flexible Hybrid
Electronics(FHE)



Consumer Products



Fire Safety



Production Line



Roll-to-roll Production Line
1400 mm upmost width

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Certifications



REACH 205



RoHS 2011/65/EU



HALOGEN



Taiwan Patent



Material ConneXion
Seal of Excellent Material



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