

# Silicone

The sustainable alternative to traditional plastics



Sustainable



Weather durability



Non-toxic



Low VOCs



Reduce CO<sub>2</sub> emission

## Compo-SiL® Introducing an Easy Path to Plastic Footprint Reduction for Manufacturers

*December 17, 2020*

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Mass Production Friendly Silicone Rubber Solves Risks of Micro-plastics at the End of Product Life

Hsinchu, Taiwan, December 17, 2020 - General Silicones Co. Ltd. (GS), based in Hsinchu City, Taiwan, acknowledges that manufacturers are now looking for plastic alternatives to improve the sustainability of their product. Thanks to the fact that silicone is a sustainable alternative to plastic, these companies can now take advantage of silicone's well-known benefits as an eco-friendly alternative material. Compo-SiL® by General Silicones are silicone sheets with a thin modified layer made of Polyurethane (PU). The PU modified layer is easy to apply using a diverse selection of adhesives, allowing the quick and easy integration of Compo-SiL® to existing mass production processes.

Creating Sustainable Product Composites with Compo-SiL® Silicone Rubber

Silicone has become the most commonly used and adaptable polymer. It is also considered a safe alternative to traditional plastics. Silicone can be manipulated into various physical forms, ranging from solid rubbers to

viscous oils and pastes. The use of silicones has revolutionized products in critical fields like medicine, technology, engineering, transport, and energy. It can be used to replace or reduce plastic in combination with other materials. For example, in the medical industry, silicone-based infant care products meet the professionals' highest standards. Silicone is also ideal for prosthetics devices because it is hypoallergenic and boasting a wide range of physical properties.

Even in the transportation industry, various silicone products are used for their freedom in design, color, hardness, and surface properties. Due to its temperature stability range and non-flammable and heat retardant properties, it is also preferred in railways and the aerospace industry as a safer alternative to plastics. As a consumer product, silicone has significantly contributed to the eco-friendly movement, and it is used in items that range from household products to fashion accessories. Silicone is durable, lightweight, and can be manipulated to work alongside materials such as wood, metals, or glass, which widens the range of application. Silicone is also used in the energy industry (such as in manufacturing solar panels) and also in the textile and technology industries. Compo-SiL® can be used in any of these fields in many diverse methods, making it a very versatile and efficient product.

It provides various technical advantages, along with all the beneficial properties of silicone. As sustainable silicone composite Compo-SiL® increases the value of the final product.

Often silicone is the preferred material. But the properties of regular silicone limits its use. Compo-SiL® allows the use of silicone in most cases that suffered so far from its limitations. Industries struggling with silicone rubber adhesion and bonding can now use Compo-SiL®.

RoHS, REACH certification, and solvent-free manufacturing makes Compo-SiL® a sustainable plastic replacement. Avoiding and minimizing plastic with green and durable Compo-SiL® allows manufacturers to reduce their product CO2 footprint. Manufacturers and consumers benefit this way from the advantages of silicone.

Compo-SiL®: Creating a better tomorrow today.

To learn more about Compo-SiL®, please visit [www.compo-sil.com](http://www.compo-sil.com)

About General Silicones

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. GS listed on Taiwan's Emerging Stock Market in 2011 (TPEX: 4730). For more information about GS, please visit [www.generalsilicones.com](http://www.generalsilicones.com). For more information on Compo-SiL®, please visit [www.compo-sil.com](http://www.compo-sil.com)

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### **General Silicones Co., Ltd.**

*General Silicones (GS) was founded in 1970 in Taiwan. GS provides a wide range of silicone products for many industries including medical, automobile, consumer products, electronics and IT. For more information visit <http://www.generalsilicones.com>.*

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**GENERAL SILICONES**