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# *Compo-SiL®* Technology Enters Smart Surface HMI Automotive Market

## *Automotive Components Supplier Using Patented GS Technology for Intelligent Cockpit Products*

***Hsinchu, Taiwan, May 21, 2021 -*** Experienced silicone product manufacturer General Silicones (GS) reports how automotive components makers start using its ***Compo-SiL®*** technology. In the automotive market, the trend progresses to simplify human-machine interaction (HMI) by giving surfaces in the cockpit smart functionalities. Intelligent cockpits provide ambient lighting, enhance interior design, display information, and integrate control functions through virtual buttons and sliders with haptic feedback.

### Durable and Versatile Material for Smart Surfaces

Integrating smart functions into automotive dashboards and surfaces is challenged by the fact that electronics have to be integrated into 3-dimensional surfaces, provide haptic feedback, and need durable protection from water, chemicals. They have to endure prolonged exposure to various weathers and prevent aging from exposure to UV radiation from sunlight.

***Compo-SiL®*** is a silicone rubber material that delivers many benefits of silicone material compared to plastic-based products. Its light transmittance is far higher than plastic-based alternatives after dyeing. It is not sensitive to aggressive chemicals, and it can be modified to be electrically conductive.

### Supporting Virtual Flexible Capacitive Touch Button and Switches

For customers using ***Compo-SiL®*** to integrate control functions, the silicone rubber is modified to provide electrical conductivity for interactive materials. In combination with intelligent haptic feedback technology, customers of GS ***Compo-SiL®*** silicone rubber to create 3D-shaped touch surfaces that integrate intelligent tactile sliders, smart buttons and dynamic surface illumination to enhance Human-Machine Interaction.

### Patented Technology for Easy Adhesion of Silicone Rubber

***Compo-SiL®*** uses its patented technology to equip the cured silicone rubber sheet with an ultra-thin polyurethane (PU) based interface layer. This layer allows [bonding of the cured ***Compo-SiL®*** silicone rubber](https://www.compo-sil.com/modules/news/article.php?storyid=58&utm_source=Global_PR&utm_medium=PR_link&utm_campaign=051921_NEWS%EF%BC%9AEnergy%20of%20Cured%20Silicone) sheet with standard glue processes to smart surfaces during mass production. This exclusive technology of GS provides outstanding adhesion strength and makes silicone rubber a perfect material for smart products in the automotive market.

### A Green Vegan Leather Fabric for Human-Machine Interfaces

***Compo-SiL®*** sheets are made of silicone rubber, a material GS manufactures using environmentally friendly water-based processes. Silicone rubber has been shown to have a low environmental footprint during manufacturing and for the entire product lifecycle.

GS can modify the surface and material properties of its [automotive vegan leather](https://www.compo-sil.com/modules/news/article.php?storyid=80&utm_source=Global_PR&utm_medium=PR_link&utm_campaign=051921_APPLICATION%EF%BC%9ATransportation) to match colors, texture, and the feel of natural leather.

### Digital Printability Gives Interior Designers More Freedom

The PU layer of the ***Compo-SiL®*** sheets can be easily printed with any design using existing digital printing technology. This advance enables interior designers and product designers to combine printed design elements with electronic display functions push the envelope in automotive interior design even further.

Sourcing managers and manufacturers can contact the sales team of General Silicones at compo-sil@gsweb.com.tw for more information or 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 Asian countries. GS is a major distributor of silicone materials and 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/)