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# 5 Key Breakthroughs developed by *Compo-SiL®* at WTiN's Innovate Textile Innovation Week 2021

## *Including Prototypes Exemplifying the Advantages*

***Hsinchu, Taiwan, October 20, 2021*** - General Silicones (GS) is announcing that the company is sharing five of its ***Compo-SiL®*** technology breakthroughs through a virtual exhibit at the Innovate 2021 virtual exhibition organized by the World Textile Information Network this October 25 through 29.

Throughout the event, GS shares how the critical breakthrough applications of its silicone technology can be used as a game-changer for new product development and manufacturing for textile brands.

### The Five Key Advancements for Textile Applications

1. Hot press transfer silicone films for strong and lasting grippers.
2. Hot press transfer silicone patches for colorful digital printing.
3. Stress-reinforced elastic silicone films for functional knitwear.
4. Green silicone velvet leather, replacing existing chemical fluff materials.
5. Green silicone fabrics for maintenance-free leather jackets.

All five advancements use different modifications of ***Compo-SiL®*** technology to solve longstanding challenges with a breakthrough application. Silicone rubber as a material offers many advantages to the textile industry. It is green during manufacturing and disposal and has the benefit of being an anti-allergic material, ideal for textiles.

When modified, silicone rubber creates a better grip than other materials. Grippers by GS for textiles come in custom colors and shapes, can have logo prints, and are easy to apply with HMA.

Using the ***Compo-SiL®*** solutions for hot press printing allows for custom on-site digital printing, large widths, and even roll-to-roll applications.

Stress-reinforced versions of the ***Compo-SiL®*** solutions are perfect for workout fabrics and situations where sweat and skin contact risk allergic reactions. Silicone offers strong resilience, does not age, can be custom dyed, and applied sewing-free. More importantly, the durable tensile properties of silicone can be used for new innovative approaches such as the modeling of bionic muscles to add supportive functionality to textiles.

Modified as silicone velvet leather, ***Compo-SiL®*** silicone rubber film replaces existing legacy chemical fluff materials as a green and vegan alternative material.

For vegan leather jackets, versions of ***Compo-SiL®*** allow taking advantage of silicone's extreme durability, UV, and weather resistance to make green and maintenance-free silicone fabrics.

All applications and their advantages are shown and explained in detail at the virtual exhibition.

### Prototype Demonstrations

GS demonstrates a prototype sports bra at their virtual exhibit. The sports bra is developed with Soft Sense, a professional Biomedical Engineering start-up, and Wonderful Power Co., Ltd, a professional ODM supplier of many well-known international underwear brands. The new sewing-free bra offers an unprecedented level of comfort and support by replacing steel rings with ***Compo-SiL®*** silicone engineered to act as supporting bionic muscle.

Another prototype demonstration is a breathable vegan raincoat developed with Well & David from Taiwan, an established OEM outerwear supplier. The silicone rubber used for this prototype is modified to include micro-pores, thus creating a green, breathable, plastic-free, waterproof, UV aging resistant, and durable alternative for casual and urban raincoats.

### Pre-Manufactured Silicone Rubber Innovation

Silicone is an excellent green material suitable for replacing plastic and toxic PVC materials used in the textile industry. For the use of silicone during textile manufacturing, ***Compo-SiL®*** silicone rubber sheets and films offer various breakthroughs previously not possible, such as cutting, digital printing, and roll-to-roll manufacturing. The properties of the ***Compo-SiL®*** silicone rubber properties are adjusted depending on the customer's intended application and shipped by GS with a modified layer that allows for adhesion to textile and other surfaces with standard adhesives.

**Register for free to attend Innovate 2021** and visit the exhibit by General Silicones at <https://innovate.wtin.com/>

**Learn more about *Compo-SiL®* by GS** at <https://www.compo-sil.com/> or watch the video at <https://www.youtube.com/watch?v=46mbNel_-DY>.

### 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. 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/)