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Sigma Polymer Group has applied its polymer expertise to develop the GT-Vacuum Ring – a flexible, durable solution that reduces production costs and increase product quality for windshield manufacturers.

Car windshields are lined with a laminated film of polyvinyl butyral (PVB), which is sandwiched between two layers of glass. The PVB layer allows the glass to absorb impact energy and improves resistance to flying debris. Safety glass is produced at high temperatures – an environment that places high demands on all materials in the process.

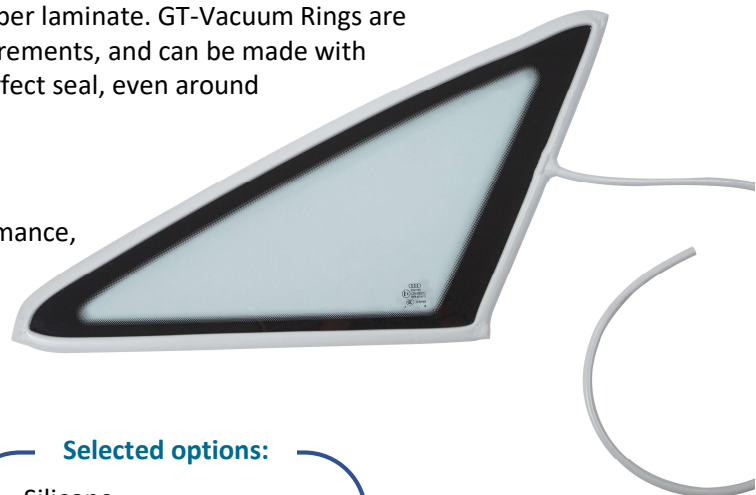
A high-quality, cost-efficient solution

The GT-Vacuum Ring is used when removing residual air between the layers of the PVB sandwich during safety glass production. The use of high-grade rubber makes GT-Vacuum Rings extremely resistant to abrasion and high temperatures. Manufactured in silicone or silicone-free materials, the rings have excellent mechanical properties, such as elasticity, that enable the use of one ring size on a wide range of laminates.

As GT-Vacuum Rings are made of durable, high-quality polymers, they withstand a high number of laminating cycles, resulting in lower production costs per laminate. GT-Vacuum Rings are produced in different section lengths to fit specific requirements, and can be made with a molded corner at any selected position to ensure a perfect seal, even around very sharp corners.

New ways of thinking:

We offer you the support you need to accelerate performance, based on our diverse application expertise and decades of innovation experience.



We offer:

- In-house development, adaption and production of rubber compounds to fulfill customer and application demands
- Many different polymer solutions
- Material combinations in the same product
- Long and short production runs

Selected options:

- Silicone
- Silicone-free
- Residue free silicone
- On roll
- Corner pieces
- T joints