SAINT-GOBAIN MEDICAL

FreeWave™

Specialized Silicone Laser Processing

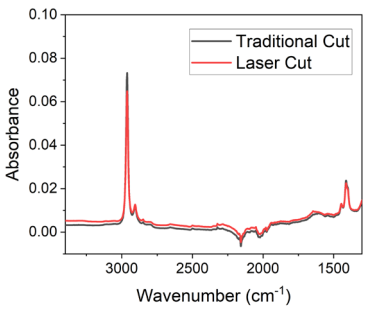
Free your design from DFM

Design for Manufacturing (DFM) forces engineers to make concessions in the name of manufacturability, rather than produce the optimal component needed for their project. The concept that you must adhere to the rules of DFM in order to successfully design a silicone molded part with the intricate features or finishing elements is based on the current limitations of silicone processing and mechanical secondary operations. No more! With FreeWave™ specialized silicone laser processing you are no longer restricted by those constraints.

A new wave in silicone processing

Using our existing precision silicone molding expertise, combined with our new FreeWave laser processing, Saint-Gobain enables customers to create previously unimaginable part designs. Features such as unique hole shapes and locations (i.e. through only one side of the part) are now a reality! The cuts are clean and there is no charring. Degradation of punch tooling often impacts quality and reliability of parts today. With FreeWave processing, quality and reliability are increased by the elimination of punch tooling as well as minimized part handling. FreeWave allows for quick, iterative prototyping that reduces the design development cycle.

FTIR* Results



*Fourier transform infrared spectroscopy

DESIGN ELEMENTS

- 360° Design freedom
- Precision cutting
- Design integrity
- Laser etching

TECHNICAL SPECIFICATIONS

- Clean edges
- No charring
- Spot size down to 12 microns
- Stable and repeatable process
- Variety of material thicknesses

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