

MARIAN

SILICONE GASKET FOR NAVIGATION/INFOTAINMENT MODULE

CUSTOMER

This company designs, engineers and manufactures connected products and solutions for automakers and consumers worldwide.

PART

Static sealing gasket for the screen of a navigation/infotainment module in recreational vehicles.

MATERIAL

Rogers BISCO® HT-800 Grey, Closed Cell Silicone Foam

MARIAN ADVANTAGE

Preferred Converter for Rogers Corporation; years of material selection expertise; superior manufacturing capabilities with the ability to hold tight tolerances; rapid samples and prototypes



CUSTOMER BENEFITS

- The final gasket is assembled with the customer's manufacturing process fitting precisely into the housing of the infotainment device. Testing by the customer confirmed that the gasket reliably sealed out water, dust and debris without failures during all accelerated aging tests and evaluations.
- Marian's customer has confidence that their customer and ultimately the users of the RV infotainment device will remain happy with their product during many years of use. At the time of this writing, this gasket design and the infotainment center have been successfully selling in the RV market for many years, without failure and with only satisfied customers.

CHALLENGE

The customer required a static seal for a navigation/infotainment module that would be contained and used on the exterior of a recreational vehicle. The exterior navigation/infotainment module was to be exposed to outdoor elements including extreme temperature swings, rain, wind and dust. The design team wanted a robust, rugged platform so that this infotainment module would perform as designed for the life expectancy of a class A RV. This can be more than 10 years. In addition, the designed shape of the gasket was intricate with thin walls and very small pinholes so that it fit precisely into the existing housing elements of the final module.

SOLUTIONS

The Marian Sales Engineer was invited to participate in product design as early as the feasibility stage of the design process. Working together, the team weighed product function, expectations for endurance, design for manufacturability and the highest level of product quality while working within target values in costs.

- **MATERIAL SELECTION** - The Marian team has many years of experience working with a broad range of materials used in a wide variety of industries. Marian partners with the world-leading manufacturers of these materials and has been a Preferred Converter for the Rogers Corporation for more than 40 years. Together with Rogers Corp, Marian recommended BISCO® HT-800 Silicone Foam, understanding that the material could withstand extreme temperatures and provide a reliable long-term seal. The BISCO® HT-800 was chosen in a grey color so that the vision equipment utilized in the final automated manufacturing process could find the part by contrast with its surrounding elements.
- **RAPID SAMPLES & PROTOTYPES** - Marian maintains a supply of BISCO® HT-800 in-house, which enabled them to provide material samples and prototypes very quickly for testing. In many cases, a small number of prototypes can be provided in 24 or 48 hours.
- **SUPERIOR MANUFACTURING CAPABILITIES** - Marian developed an automated die-cutting process that produced these intricate parts containing very thin walls and 8 extremely small pinholes with very tight tolerance. Marian's tooling and cutting process ensured that the parts were made with the tiny hole slugs removed and with the parts presented on a roll for easy and automated installation by the customer.

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