

MARIAN

WATER SEALING ANTIMICROBIAL GASKET FOR INTERCOM SYSTEM

CUSTOMER

Global designer & manufacturer of critical intercommunication devices for schools and hospitals

PART

Layered sealing gasket with foam, acrylic PSA and antimicrobial film

MATERIAL

Rogers PORON® AquaPro™ Urethane Foam, Autotex antimicrobial film, 3M 9832 double coated tape

MARIAN ADVANTAGE

Material selection & expertise; Rapid response to samples and prototypes for testing



Representation of intercom system (not the actual product)

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CHALLENGE

The digital display interface of the communication system that the company designed required a gasket to sit within the housing to seal the intercom console from dust, moisture and other contaminants. The gasket, which was sourced originally from another manufacturer, leaked when the unit was sprayed with cleaning solution. This moisture leak compromised the internal components. This introduced the potential to cause a system failure.

SOLUTION

A Marian sales engineer was invited to recommend a solution. With his guidance our Marian team used their extensive material knowledge and experience to recommend a gasket comprised of three layers.

Material selection criteria:

- The central core of the gasket is Rogers PORON® AquaPro™ Urethane Foam. This cellular gasket material offers enhanced water sealing and long term performance, outperforming other material options initially and over a long service life.
- The foam is laminated to an Autotex antimicrobial textured hard coated polyester film. When bacteria come into contact with this film the antimicrobial agent disrupts the bacterial cell wall, killing or inhibiting bacterial growth.
- The assembly is laminated to 3M 9832 double coated tape. This 3M acrylic adhesive provides dependable adhesion to a variety of substrates including the foam of the gasket and molded plastic housing of the intercom unit.

Marian's team quickly provided material samples and rapidly (next day) created laser cut prototypes for evaluation and testing. These materials and many more are readily available at most of Marian's ten converting locations around the world.

CUSTOMER BENEFITS

The materials in Marian's gasket solution not only passed the customer's leak tests but provided the customer with renewed confidence in their product. Marian's partnership with strategic material manufacturers like Roger's Corporation and 3M enable Marian to provide creative, dependable, and cost effective component parts for customers who design and build products that have a positive impact on the world around us.