

# MARIAN

## EXPERTS IN CREATING FAST PROTOTYPES FOR PARTS WITH TIGHT SPECS

### CUSTOMER

Designer and supplier of ruggedized computer and communications systems

### APPLICATION

Gasket seal used in rugged PDA for military

### MATERIAL

Neoprene (40 durometer) with Tesa 4965 on one side

### MARIAN ADVANTAGE

Fast prototypes, consistently met tight specifications, quick lead time for design phase and production.

### CHALLENGE

The customer needed Marian to produce a sealing gasket for their rugged PDA for military use in war zones. The gasket had to meet Mil-810E specifications, which includes 24 testing categories that range from low pressure (altitude) to fungus exposure to explosive atmosphere.

- ◆ The gasket had to meet a tight tolerance of .005"
- ◆ The wall thickness could be no larger than .080"

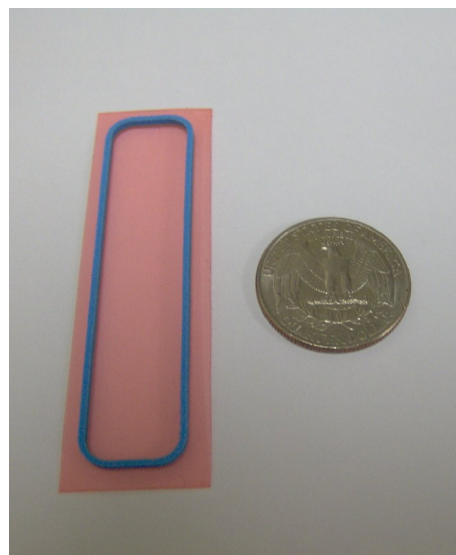
In addition, the customer also needed the gasket to be prototyped and produced quickly.

### SOLUTION

Marian developed the gasket to meet the military specifications and quickly provided prototypes to the customer. Marian proved that it could meet the tolerances and wall thickness on a consistent basis during production.

### CUSTOMER BENEFITS

- ◆ Customer avoided tooling costs for the custom-molded O-ring.
- ◆ Customer could test the materials through all stages of design to ensure tolerances were met regularly.
- ◆ Due to Marian's flexible design capabilities, the customer had a quicker lead time for design phase and production than it would have had with any other converters.



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