



RODGARD MOLDING SOLUTION SUCCESSES

RODGARD'S CUSTOM MOLDING SOLUTIONS MAKE IDEAS COME TO LIFE!

IF YOU THINK YOUR APPLICATION CAN'T BE DONE, THINK AGAIN!

Our engineering specialists work in partnership with customers to provide solutions for the most demanding applications. From concept design to prototyping to full commercialization, we strive to meet your needs at the lowest possible cost and most responsive time. Some examples of our commercial successes are described below.

CUSTOMER APPLICATION SUCCESS STORIES

APPLICATION:

The U.S. military required accelerated development of a lightweight, protective wheel cover that provided corrosion resistance and very low temperature impact resistance (-40°C). In addition, the cover had to provide thermal signature reduction and provide a step up support. This was an extremely demanding application with urgent need for rapid development.



STEP UP SUPPORT
PROTECTIVE COVER
SIGHT GLASS
VENT HOLES FOR
CONVECTIVE COOLING

Cover Mounted to Military Vehicle

RODGARD'S CUSTOMER SOLUTION:

Rodgard partnered with the customer to develop concept designs. Prototypes were developed using proprietary composite materials. In-house tests were developed to simulate actual field conditions. Rodgard participated in field-testing to validate the final product performance. This molded product solution is being used today to protect our troops in the Middle East and around the world.



RODGARD MOLDING SOLUTION SUCCESSES

CUSTOMER APPLICATION SUCCESS STORIES

APPLICATION:

This application required use of an RFID (radio frequency identification) tag to provide real time tracking of high value goods in the customer's manufacturing operation. The tags, as supplied by the OEM, contain sensitive electronics that were being damaged when exposed to extremely harsh environmental conditions. Alternate solutions had failed to resolve problems encountered when tags were exposed to very high pressure (> 6000 psi).

RODGARD'S CUSTOMER SOLUTION:

RFID tags are both pressure and temperature sensitive. The challenge was to develop an "encapsulant" that protected the existing tag at high pressure while controlling the processing temperature. Rodgard's encapsulating process prolonged life of the active (battery-powered) tag and its electronic components from exposure to high temperature associated with traditional injection molding. Rodgard's engineers developed an encapsulated tag using a proprietary urethane encapsulating process. The manufacturing technology employed minimized tooling costs. The result was development of an economical tag that quickly met customer performance requirements.



COLOR CODED FOR VISUAL
RECOGNITION

APERTURE DESIGN FACILITATES
MANUAL BAR

LIGHT WEIGHT, TOUGH TAG
(75 grams)

Encapsulated RFID Tag