



REACTION INJECTION MOLDING RIM URETHANE AND RIM NYLON

WHAT'S NEW?

In addition to our proprietary low and high-pressure injection molding solutions, Rodgard has added RIM (reaction injection molded) Urethane and Nylon to further enhance our customer offering. We offer these engineered polymer solutions from product design and development to full commercialization.

WHY RIM URETHANE AND RIM NYLON?

SUPERIOR PRODUCT PERFORMANCE:

Provides an almost infinite number of formulations to optimize properties for the most demanding applications, from very rigid to flexible and tough (80 Shore D to 10 Shore A)

DESIGN FLEXIBILITY:

Allow thin/thick sections,
stress free parts

PROCESSING:

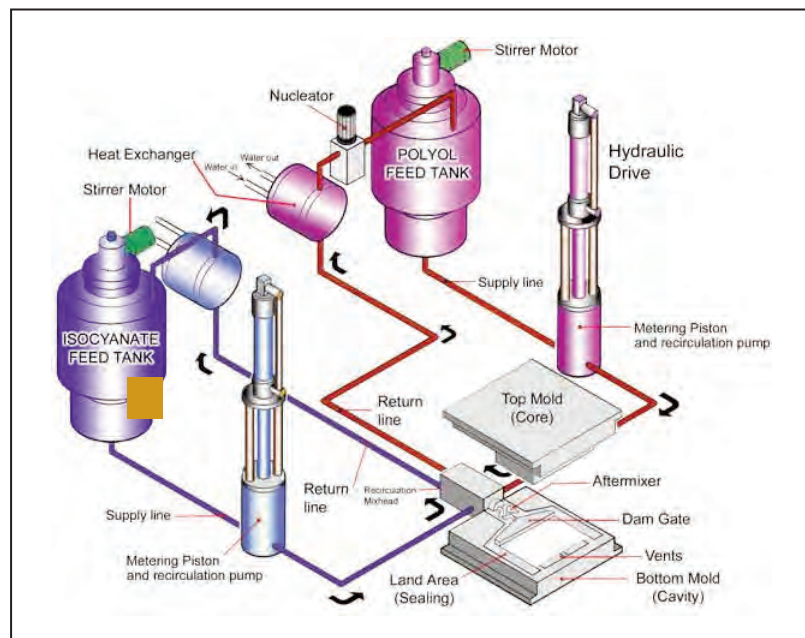
Large parts, complex shapes,
low pressure tooling

VERSATILITY:

Accommodates additives,
colorants, fillers & overmolding

ECONOMICS:

Very low tooling cost!
Competitive for short run!



HOW DOES RIM WORK?

For Polyurethane – two reactants, a polyisocyanate and an activator are metered into a mix chamber, then into molds where they undergo a reaction to form polyurethane. The process for nylon is similar but involves the addition of nylon prepolymer and activator.

REACTION INJECTION MOLDING

RIM URETHANE AND RIM NYLON



TYPICAL RIM APPLICATIONS



Rail Bumper Guard



Incapsulated RFID Tag



Shock Absorbers

DO YOU THINK YOUR APPLICATION CAN'T BE DONE AT ALL,
OR CAN'T BE DONE EVEN BETTER?

THINK AGAIN!

RODGARD'S RIM CAPABILITY PROVIDES EXCEPTIONAL VALUE.

Custom, proprietary polymer solutions for the most demanding applications from concept design to prototype full commercialization at the lowest possible cost and most responsive time.

ADVANTAGES OF RIM URETHANE AND RIM NYLON

RIM PLASTICS vs.

rubber

- High cut and tear resistance
- Superior load bearing
- Thick section molding
- Oil resistance
- Ozone resistance
- Radiation resistance
- Broader hardness range
- Low Pressure Tooling

metal

- Weight Savings
- Noise reduction
- Abrasion resistance
- Reduced fabrication costs
- Corrosion resistance
- Impact resistance
- Flexibility
- Non-conductive
- Non-sparking

