EXOTHERMIC

REACTION INJECTION MOLDING

- Large, sculpted parts can be molded economically.
- Variable thickness walls allow for greater design freedom.
- Closed molds produce accurately molded and structurally strong parts.
- Lower tooling cost and shorter tooling lead time.
- A wide variety of material properties including UL94VO.
- Electronic components can be encapsulated.
- Metal parts can be encapsulated.

RIM parts are lower cost than the same parts made from metal or fiberglass.

Composites - RIM parts can be reinforced with many materials.

Exothermic capabilities:

- CAD Engineering Review
- Mold Design
- Mold Manufacture
- Mold Repair/ Modification
- RIM Molding
- Precision Painting
- Silk Screening
- Assembly

ISO 9002 Compliant

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RIM Chosen Over Injection Molding For Medical Device

Minrad, Inc., the maker of a laser targeting system for many fluoroscopic procedures, wanted to insure the system's appearance was as high tech as the advanced capabilities of its technology. In reviewing **RIM** and the options for plastic molding, they turned to **Exothermic Molding, Inc**. when it was apparent that **RIM** offered the best solutions for housing the system. The solid polyurethane **RIM** system with a UL94 V-0 flammability rating was excellent for thin-wall molding and offered strength, surface finish, large part capabilities and durability, while maintaining its lightweight and high tech appearance. The design for **RIM** was by HS Design (Gladstone, NJ).

Exothermic Molding, Inc. *through the* ***RIM*** *process provided Minrad with the high tech appearance they were seeking, as well as a significant cost savings.*

Another advantage was of significant cost savings made possible by the use of low cost family molds. The components consisted of five molded parts. **Exothermic Molding**, through their extensive experience in mold design and manufacturing, faced the challenge at hand with family molding and produced the 5 different molded parts from only two molds. One mold was designed with four cavities and three different mold blocks to house three separate configurations, in order to accommodate its use with different types of existing fluoroscopes. The battery charger and cover were grouped together in the second mold. This efficient method of family molding allowed **Exothermic Molding** to yield 250 parts per day on two presses.

RIM is well suited for various applications in the medical, electronic, automotive and other various markets.

Exothermic molding delivers large, lightweight RIM parts quickly ... at competitive prices.