

Top-Tier Gasketing, Tooling & Recycling Solutions – RAMPF at Foam Expo

Polyurethane and silicone gaskets, rigid foam boards, and pioneering chemical recycling technology in Novi, MI – Booth 2314

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Page 1 of 4

Wixom, MI, USA, June 10, 2025. RAMPF Group, Inc. is showcasing cutting-edge solutions in polyurethane and silicone gasketing, high-performance rigid foam boards, and chemical recycling technology at Foam Expo in Novi, MI, June 24 to 26 – Booth 2314.



Key Takeaways

1. RAMPF polyurethane and silicone gaskets deliver robust, long-lasting protection against moisture, dust, chemicals, and various other environmental factors in industries such as automotive, electronics, filter, packaging, and appliances.
2. RAMPF's lightweight rigid foam boards feature outstanding mechanical properties and are used to manufacture negative molds for casting, supporting structures for Close Contour pastes, CNC program testing, design and form studies, as well as styling, master, and data control models.
3. RAMPF's innovative chemical recycling technology transforms polyurethane (PU) and rPET waste into high-quality, custom-engineered polyols to produce new, sustainable products.

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Polyurethane and Silicone Gasketing – Lance Ewert, Business Center Manager FIPG



Lance, could you please give us an overview of RAMPF's gasketing solutions?

We develop and manufacture liquid to highly thixotropic two-component foam gaskets and elastomer seals based on polyurethane, RAKU® PUR, and silicone, RAKU® SIL. These are used in industries such as automotive, electronics/electronics, filter, packaging, and appliances.

RAMPF offers "market-driven" polyurethane and silicone solutions. What does that look like?

We start with the customer's challenge, not a stock formula. Our encompassing standard product portfolio provides a wide range of chemical and mechanical properties, which can be fine-tuned to the customer's specific needs.

Your company provides liquid-applied gaskets – what are the advantages?

Our gasket systems deliver efficient sealing, premium quality, and effortless handling. With Formed-In-Place Foam Gaskets (FIPFG) and Formed-In-Place Gaskets (FIPG), manufacturers benefit from unlimited design flexibility, faster cycle times, and zero material waste. The seal is applied by a robot within seconds and cures directly on the part, ensuring maximum efficiency.

What makes RAMPF an end-to-end gasketing partner?

We are a global leader both for reactive plastic systems and automated mixing and dispensing systems. Our material and processing expertise guarantees exceptional value and performance. We also offer contract manufacturing to customers with intermittent production schedules or low volumes that do not justify equipment purchase.

Rigid Foam Boards for Tooling – Mark Davidson, Director of Sales Tooling



Mark, please explain what RAMPF means by "rigid foam boards" and how these are supplied to customers?

Rigid foam is a hardened material, typically polyurethane-based. RAMPF offers these foams under the RAKU® TOOL brand as board materials – semi-finished, rectangular blocks that can be bonded into various shapes and sizes. We also offer a comprehensive range of adhesives precisely matched to these boards.

What are the application areas?

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Page 3 of 4

Applications include negative molds for casting, supporting structures for Close Contour Pastes, CNC program testing, design and form studies, as well as styling, master, and data control models.

What are the key benefits of RAKU[®] TOOL rigid foam boards?

Our boards feature maximum mechanical strength, minimal weight, very good surface quality, easy machineability, and good resistance to heat and organic solvents.

Chemical Recycling of Polyurethane and PET – Shakti Mukerjee, Business Consultant Eco Solutions



RAMPF has been recycling polyurethane since 1992. What makes this approach so pioneering?

We were among the first to embrace chemical recycling of polyurethane, using solvolysis methods like glycolysis, acidolysis, and aminolysis. This allows us to transform foam scraps from mattresses, furniture, car seats, and more, into high-quality recycled polyols.

What other materials are processed through RAMPF's recycling know-how?

We also recycle post-consumer PET from bottles, fabrics, and fibers. We have also developed processes for PET/PSA, other polyesters like PLA, PC, and PHB, and renewable raw materials such as vegetable oils and lignin.

How do recycled polyols compare to those made from virgin raw materials?

RAMPF recycled polyols match virgin polyols in both quality and technical performance. They are tailored to each customer's production setup, making them ready for direct use in manufacturing.

Which industries benefit from RAMPF's recycled polyols?

Automotive, aerospace, construction, electronics, energy, filtration, household appliances, medical technology, rail, shipbuilding, and furniture. Our solutions support sustainability across the board.

Visit RAMPF at Foam Expo in Novi, Michigan, June 24 to 26 – Booth 2314 – to discover cutting-edge solutions in polyurethane and silicone gaskets, advanced rigid foam boards, and pioneering chemical recycling technology!

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www.rampf-group.com/en-us/



RAMPF Group, Inc., based in Wixom, Michigan, USA, is a market-leading specialist for

- > Mixing & dispensing systems for the reliable processing of polymers
- > Two-component polymer systems based on polyurethane, epoxy, and silicone
- > Modeling and mold engineering materials, in particular for the automotive, marine, and aviation industries
- > Machine bases, machine frames, and other structural components made from mineral casting (polymer concrete)

RAMPF Group, Inc., is a company of the international RAMPF Group based in Grafenberg, Germany.

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