

RAMPF presents premium polyurethane and silicone systems at Foam Expo 2018

Customized RAKU[®] PUR and RAKU[®] SIL solutions for sealing, foaming, casting, and design

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Wixom, Michigan, February 7, 2018. RAMPF Group, Inc. is presenting its encompassing portfolio of high-performance foam systems for the automotive, household appliance, electrical/electronic, packaging, energy technology, recreation equipment, and medical industries at Foam Expo North America 2018 in Novi, MI, March 6 to 8 – Booth 427.

More than 400 recipes on the market, a broad spectrum of material properties, and a dedicated team of experts – RAMPF Group, Inc. based in Wixom, MI, is offering customers high-performance solutions for sealing, foaming, casting, and design. The products of the RAKU[®] PUR (polyurethane) and RAKU[®] SIL (silicone) brands offer outstanding mechanical and chemical properties, stand for the highest quality, and guarantee easy handling.

The highlights at Foam Expo 2018:

> RAKU[®] PUR 32-3264 & RAKU[®] PUR 32-3278 anti-fogging foam gaskets



RAKU[®] PUR 32-3264 and RAKU[®] PUR 32-3278 polyurethane foam gaskets are impressive in terms of their anti-fogging qualities and VOC values, high mechanical strength, low water absorption, excellent bonding to metal, and high temperature resistance. The gaskets are used for sound abatement to reduce NVH, BSR, and ensure the reliable, efficient, and low-emission sealing of complex, three-dimensional component contours in closed environments.

RAKU[®] PUR 32-3264 and RAKU[®] PUR 32-3278 have been tested to VDA 270 / 275 / 278 and meet all physical-mechanical and emissions requirements, including DBL (5452.13), BMW (TL 8350 151.6), FCA (MS AY 560), GM (3628M), and VW (TL 848). The high viscosity ensures these foams can be applied on

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vertical surfaces and form seals of consistent size. The outstanding tear resistance of the RAKU[®] PUR gaskets is more than able to resist the shear forces that can occur during installation.

> RAKU[®] PUR and RAKU[®] SIL for safe and quiet household appliances



The flawless operation of household appliances is a crucial element of comfort and safety in the home. Automated sealing systems from RAMPF play an important role in the long-term functionality of these appliances by providing reliable and efficient protection from excessive noise, moisture, chemicals, and various environmental influences.

The RAKU[®] PUR and RAKU[®] SIL portfolios of automated gasketing include systems with flame-retardant properties to UL 94 (HF-1, HF-2, HBF) and enhanced UV stability. These technologies also offer IP (Ingress Protection) ratings to safeguard equipment from incidental splashing to high-pressure spray and submersion in water and chemicals as well as other fluids.

The sound suppression and vibration-damping properties of RAMPF's sealing systems contribute significantly to the stable and quiet operation of household appliances. The foams cover a temperature range from -60 to +250°C and are used, amongst others, in components for refrigerators, freezers, dryers, dishwashers, washing machines, as well as sealing sinks and hot water heaters.

> RAKU[®] PUR 34 rigid foams



Rigid foams are construction materials with a low density and closed-cell structure. They are processed using high or low pressure with suitable molds. RAKU[®] PUR 34 rigid foams are particularly suited for

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lightweight moldings which have to comply with certain static requirements. Fields of application include appliance and machine parts as well as components for vehicles and sports equipment.

Special advantages include:

- > short reaction and demolding times to increase productivity
- > high mechanical strength for reliable performance
- > excellent vibration damping, noise reduction, and thermal insulation
- > reduced material cost to improve profitability
- > lower part weight for improved performance and cheaper packaging options

RAMPF – material and machinery from a single source

RAMPF Group, Inc. offers a unique proposition to the market, as it develops and produces both the sealing systems as well as the static / dynamic mixing and dispensing systems for their reliable processing. The company also offers contract manufacturing for liquid gaskets, sealing, and casting.

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RAMPF Group, Inc., based in Wixom, Michigan, is the North American subsidiary of the international RAMPF Group.

The product portfolio of RAMPF Group, Inc. is comprised of:

- > mixing and dispensing systems for the reliable processing of polymers
- > two-component polymer (or synthetic) systems based on polyurethane, epoxy, and silicone
- > modeling and mold engineering materials, in particular for the automotive, marine, and aviation industries

The international RAMPF Group stands for engineering and chemical solutions and caters to the economic and ecological needs of industry. The Group secures its presence on the international markets with more than 700 employees and six core competencies:

- > **RAMPF Machine Systems** based in Wangen (Göppingen), Germany, develops and produces multi-axis positioning and moving systems, trunk machines, and basic machines based on high-precision machine beds and machine bed components made from alternative materials.
- > **RAMPF Production Systems** based in Zimmern o. R., Germany, develops and produces mixing and dispensing systems for bonding, sealing, foaming, and casting a wide variety of materials. The company also offers a wide range of automation skills relating to all aspects of process engineering.
- > **RAMPF Composite Solutions** based in Burlington, Ontario, Canada, is a holistic composites supplier to companies in the aerospace and medical industries. The company offers a complete suite of services including composite part design and engineering, metal-to-composite conversion engineering, and composite manufacturing to very tight tolerances.
- > **RAMPF Eco Solutions** based in Pirmasens, Germany, develops chemical solutions for the manufacture of high-quality alternative polyols from PU and PET waste materials. This expertise is also put to use in the planning and construction of customer-specific facilities for manufacturing polyols.
- > **RAMPF Polymer Solutions** based in Grafenberg, Germany, develops and produces reactive resin systems based on polyurethane, epoxy, and silicone. Its product portfolio includes liquid and thixotropic sealing systems, electro and engineering casting resins, edge and filter casting resins, and adhesives.
- > **RAMPF Tooling Solutions** based in Grafenberg, Germany, develops and produces board and liquid materials for cutting-edge modeling and mold engineering. The range of skills includes made-to-measure services and products such as pastes, large-volume and full-size castings for Close Contour models, and prototyping systems.

RAMPF has subsidiaries in Germany, the U.S., Canada, Japan, and China.

All RAMPF companies are united under a holding company – **RAMPF Holding GmbH & Co. KG** – based in Grafenberg, Germany.

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