

Best-In-Class Functionality & Durability – RAMPF Electro Casting Resins & Gap Fillers

High-performance polyurethane, silicone, and epoxy systems for the electrical and electronics industry at electronica 2024 in Hall A4 / Booth 324

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Grafenberg, Germany, October 10, 2024. Tailor-made for maximum performance and service life – RAMPF Advanced Polymers is presenting electro casting resins and gap fillers for the electrical and electronics industries at electronica from November 12 to 14 in Munich – Hall A4 / Booth 324.

Key facts

1. Electro casting resins and gap fillers developed and produced by RAMPF Advanced Polymers ensure maximum functionality and durability of electrical and electronic components.
2. Electro casting resins provide reliable and efficient protection against chemical substances as well as environmental influences such as heat, cold, and moisture.
3. Gap fillers ensure effective heat dissipation and protect sensitive components from overheating.



Electro Casting Resins

One- and two-component electro casting resins reliably and efficiently protect sensitive electrical/electronic components, batteries, motors, power electronics, sensors, and transformers from chemical substances and environmental influences such as heat, cold, and moisture. The reactive plastic systems are listed by leading manufacturers in the automotive and electronics industries, amongst others.

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RAKU[®] PUR polyurethane electro casting resins feature

- > Wide Shore hardness range (20A - 90D)
- > Easy adjustment of reactivity
- > Low shrinkage
- > Low exothermicity
- > Fast processing
- > High shock resistance
- > Good adhesion to plastics

RAKU[®] POX epoxy electro casting resins feature

- > High mechanical strength and good adhesion to metal
- > Very good chemical resistance
- > Very good impregnation
- > High abrasion resistance

RAKU[®] SIL silicone electro casting resins feature

- > Very good temperature resistance
- > Consistent properties over the entire application temperature range
- > Good aging resistance
- > High thermal conductivity
- > Good crack resistance
- > Very good chemical resistance
- > High UV and weather resistance
- > Minimal SVHC levels

The highlight at electronica 2024 – The application simulation of RAMPF's high-performance gap filler RAKU[®] SIL 27-1222 live at the RAMPF booth.

Gap Fillers

Gap fillers (thermal pastes) based on silicone are primarily used in components in power electronics and batteries to close gaps between the components and the heat-dissipating surface. The high thermal conductivity of the thermal interface materials is further increased by thinner adhesive joints and good wetting.

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RAKU[®] SIL silicone gap fillers feature

- > High continuous temperature resistance
- > Good aging resistance
- > Low density
- > Good thixotropic properties for ideal processing
- > Low SVHC values
- > Optimal heat dissipation for efficient performance and long service life of components

Materials. Processing. Services.

RAMPF Advanced Polymers offers customers comprehensive services, ranging from product development to application technology and market launch:

- > Customized material consultation and development
- > Application consulting and process optimization
- > Technical advice for component design and prototype production
- > Series-related customer trials with an encompassing machinery park
- > Dedicated, worldwide after-sales service

Jean-Michel Pouillaude, Director Business Center Electro Casting at RAMPF Advanced Polymers – “Whether it’s a standard product or a new development, our team finds the optimal solution for our customers. We offer a comprehensive portfolio of high-quality products with a wide range of chemical and mechanical properties. In most cases, we therefore have a product in stock that not only meets but exceeds requirements. For special projects, our standard product range can be quickly customized or entirely new systems developed – very quickly and flexibly.”

Visit RAMPF Advanced Polymers at electronica 2024 from November 12 to 14 in Munich, Germany – Hall A4 / Booth 324!

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www.rampf-group.com



RAMPF Advanced Polymers GmbH & Co. KG based in Grafenberg, Germany, is a leading specialist in the development and manufacture of customized and sustainable solutions for formulating, sealing, casting, and design.

The product portfolio includes

- > Sealing systems, electro and engineering casting resins, edge and filter casting resins, and adhesives based on polyurethane, epoxy, silicone, and silane-modified polymers
- > Board and liquid materials for model and mold making based on polyurethane and epoxy
- > Chemical solutions for the manufacture of customized recycled polyols based on polyurethane, PET, and PIR residues.

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

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