

**High Performance Polyamides –
our Specialty**

EMS
EMS-GRIVORY

Our products

EMS-GRIVORY – the leading specialist for high-performance polymers

Polyamides are among the most versatile and well-performing polymers. EMS-GRIVORY is the manufacturer with the broadest range of polyamides worldwide, which are used in injection-molding and extrusion processes in a wide range of sectors such as automotive, industrial and consumer goods, electro and electronics, healthcare, optics and packaging, and sold under the trade names Grivory®, Grilamid®, Grilamid TR®, and Grilon®.

We always provide a solution

Among the strengths of EMS-GRIVORY are not only the development and manufacture of these high-performance polymers, but also the creation of innovative system solutions together with customers everywhere in the world.

Cost, weight and energy savings through metal replacement are the focal point, but polyamides from EMS also allow creation of new designs without any post-treatment such as painting or coating.

As development partner, EMS-GRIVORY provides intensive customer support from experienced process engineers in the development process through to serial production. These include technical and economic feasibility studies, prototyping, mold design and optimization, component testing and processing optimization. Our varied service performance is tailor-made to suit individual customer requirements, and allows them to differentiate themselves in their markets with lower energy consumption in production, shorter development cycles and achievement of ambitious sustainability goals.

Development partner for innovative solutions

Savings through metal replacement in automotive construction

In the last 40 years, EMS-GRIVORY has made a significant contribution towards development of modern, high-quality and extremely reliable automotive components. These enable customers to achieve a significant reduction in component weight and improved energy efficiency while satisfying high standards of comfort and safety.



High-performance polyamides from EMS-GRIVORY are suitable for use in all types of drive system. For electric and plug-in hybrid vehicles, EMS-GRIVORY collaborates with top OEMs to increase driving range through lightweight solutions replacing die cast alloys, to reduce battery-charging times and to improve temperature management of the entire vehicle. EMS-GRIVORY develops complete system modules from electric pumps, valve modules and cooling lines right up to various sensor housings. These solutions not only lower weight, but also reduce the CO₂ footprint and significantly improve recyclability by replacing vulcanized rubber lines. Higher charging speeds require high-performance polymers with flame-retardant properties allowing 800-volt charging. EMS-GRIVORY provides unique solutions for 800-volt busbar systems, cooled battery swapping systems and electronic connectors.

Grilamid®
EMS

GRIVORY®
EMS

GRILON®
EMS





Many of these new applications are also suitable for use in internal combustion engines. In addition, our polyamides improve comfort and decorate interiors e.g. for ambient lighting and decorative trims, meeting the highest requirements for surface gloss and durability. We also support our customers with comprehensive application-specific product data, simulation calculations for component and tool design, prototype manufacture and small-scale production, thus helping our customers achieve faster innovation.

Replacement of metal and glass in industrial and consumer goods

Additional application possibilities have arisen from digitalization progress towards industry 4.0 in production automation and intralogistics. Due to their superior resistance to harshest environmental conditions and longevity with minimum costs, EMS-GRIVORY polyamides are used in mineral mining, mail, luggage sorting systems, transport and safety monitoring. Polyamides specifically approved for use in direct contact with hot and cold drinking water and food-stuffs are used for water meters, water filter housings, filter bowls and pressure reduction valves, as well as in consumer products such as coffee machines, smart cookers and general kitchen utensils. Replacing glass, brass or zinc with EMS-GRIVORY material helps to lower costs and the carbon footprint of finished parts.

Highest levels of precision and reliability in electrical and electronic applications

Increasing complexity and more stringent safety requirements for energy distribution demand materials with higher mechanical and thermal values.

EMS products are resistant to high temperatures, with outstanding strength values and flameproof modification. Replacement of thermoset materials with EMS products lowers the CO₂-footprint of finished parts and makes components recyclable. In miniaturized electronic components such as LEDs or connectors, our materials ensure highest precision in combination with heat resistance at temperatures required for soldering processes. As stiff, and yet impact-resistant housings for components in mobile GPS systems, smartwatches and tablets, polyamides from EMS-GRIVORY protect internal electronic components while satisfying the highest requirements of strength and design. Typical applications are structural frames and housings.

Sterilizable high-performance polyamides in healthcare

Polyamides from EMS-GRIVORY are used in a wide range of healthcare applications, including sophisticated laboratory apparatus, instruments, packaging, medical infrastructure, protective equipment and mobility aids. Our specialty polymers show excellent resistance to various sterilization processes as well as aggressive disinfectants and cleaning agents.

This makes EMS polyamides highly suitable for reusable items. The product portfolio meets the high-performance requirements of the medical industry with both transparent and reinforced polymers for metal replacement.

Global market leader in eyewear

Polymers from EMS provide the perfect combination of functionality and unlimited individual design, colors and UV protection for sun and sports glasses. They also make frames for corrective glasses and virtual reality headsets ultra-lightweight and practically unbreakable. Our products provide the highest levels of safety for protective glasses through impact strength and break resistance.

EMS-GRIVORY is world market leader for transparent polyamides with Grilamid TR and its outstanding resistance to chemicals and stress-cracking, as well as excellent optical and mechanical properties. This material is now also available based on renewable raw materials.

Optimally packaged by EMS-GRIVORY

Packaging and containers made from EMS polyamides provide excellent barrier properties against oxygen, carbon dioxide and flavors so that food and beverages, as well as cosmetics and medicines, remain fresher longer. Our products fulfill high regulatory requirements, have corresponding international approvals and make recycling possible.

EMS – environmentally friendly material solutions!

EMS-GRIVORY attaches great importance to environmentally friendly and sustainable production and is already CO₂-neutral at all locations worldwide. With its sustainable supply chain, EMS-GRIVORY continually reduces the CO₂ footprint of its products, offering a wide range of bio-based materials and recycles, helping customers to achieve their ambitious sustainability goals.

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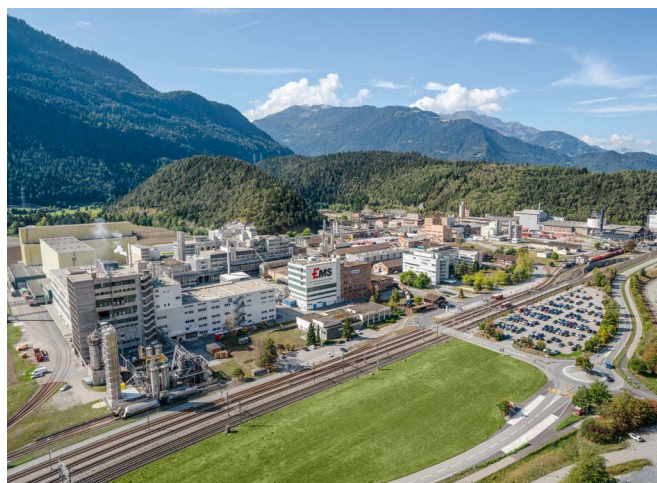
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About us

EMS-GRIVORY is part of the High Performance Polymer business area of the EMS Group and employs more than 1000 people worldwide. The largest development center and production site is located in Domat/Ems, Switzerland, with further production sites in Germany, China, Taiwan and the USA. We also have development and sales organizations in all major markets in Europe, Asia and America, enabling us to react quickly to customer inquiries.

We are active worldwide, prompt and customer-oriented

The independent, but closely cooperating Business Units, EMS-GRIVORY Europe, EMS-GRIVORY Asia and EMS-GRIVORY America, satisfy specific market requirements. Customers worldwide benefit from locally competent and close global cooperation of these Business Units in Marketing & Sales, Research & Development, Application Development and Production.



HIGH PERFORMANCE POLYMERS
SPECIALTY CHEMICALS