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## PRESS INFORMATION

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### EMS high-performance polymers for medical applications

Specialty products from EMS-GRIVORY are used in a wide range of applications in medical technology, for example in complex treatment and laboratory equipment, disposable and reusable instruments, containers, medical equipment, protective equipment and mobility aids. Specialty polymers from EMS satisfy biocompatibility tests in accordance with USP Class VI and ISO 10993 and are resistant to sterilization processes as well as exposure to aggressive disinfectants and cleaning agents. The product range includes both transparent and high-strength, reinforced specialty polymers meeting high requirements of the medical industry in accordance with VDI 2017.

Typical applications include fluid-carrying components in infusion systems and ventilators, respiratory masks, surgical instruments, analysis containers, surgical lights, structural parts for hospital beds, monitor brackets, patient lifting devices, walking aids, hearing aids and fitness trackers.



Reusable medical devices and instruments pose a potential risk of contamination. In addition to a range of opaque reinforced specialty materials, EMS-GRIVORY has developed transparent Grilamid TR HT 200 for this kind of application. This material is characterized by crystal-clear transparency, high mechanical strength, toughness and exceptional resistance to chemicals. It withstands several hundred cycles of steam sterilization at 134 °C.



Antimicrobial specialties from EMS-GRIVORY are particularly suitable for surfaces and components that are frequently touched by many people. They reduce bacterial growth by 99% in accordance with the JIS Z 2801 standard.



## Summary

Thanks to their outstanding mechanical properties and chemical resistance, EMS high-performance polymers such as Grilamid L (PA12), Grilamid TR (transparent PA) or Grivory GV (partially aromatic, high stiffness and solid PA) for example, guarantee reliability and precision in a wide range of technological medical applications. Experts from our Application Development Center provide support in the realization of customer projects - from concept development and simulation to serial production.



### Contact for technical queries

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