

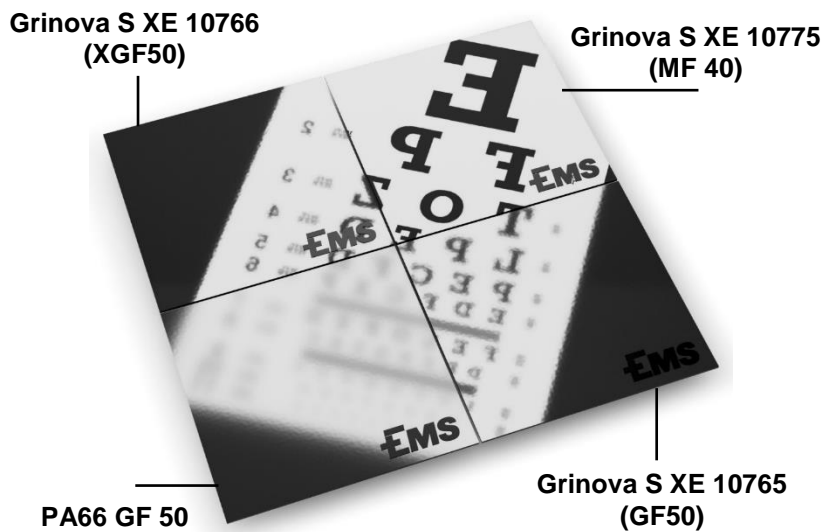
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PRESS INFORMATION

Progress redesigned – GRINOVA from EMS-GRIVORY

In industry, efficiency and sustainability are now center of focus more than ever before. Companies around the world are constantly looking for innovative solutions to optimize production processes, reducing costs and protecting the environment. The new Grinova product family from EMS-GRIVORY provides promising solutions here. With three specialized product lines characterized by their unique properties, Grinova satisfies a wide range of requirements, thus making a significant contribution towards achieving industrial goals:

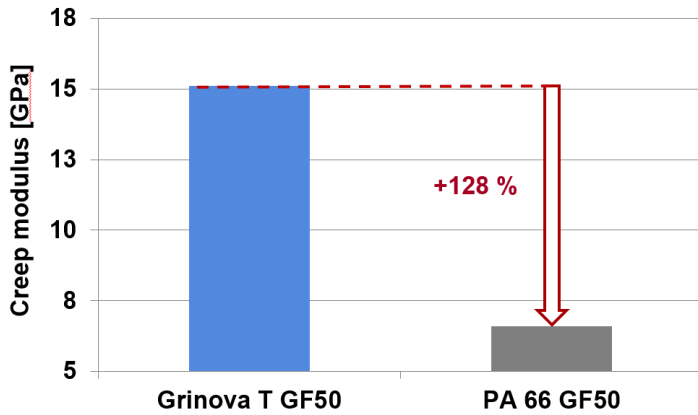
GRINOVA S – UV-stable, brilliant surfaces



- **Gloss with high filler content** → highest surface quality
- **Scratch resistance** → highly resistant to surface damage from scratching, wear or other influences
- **Weather resistance** → outdoor applications under changing climatic conditions.
- **Efficient processing** → short cycle times for injection-molding processes, high productivity and lower production costs due to low melt and mold temperatures.

GRINOVA T – Tough and creep resistant

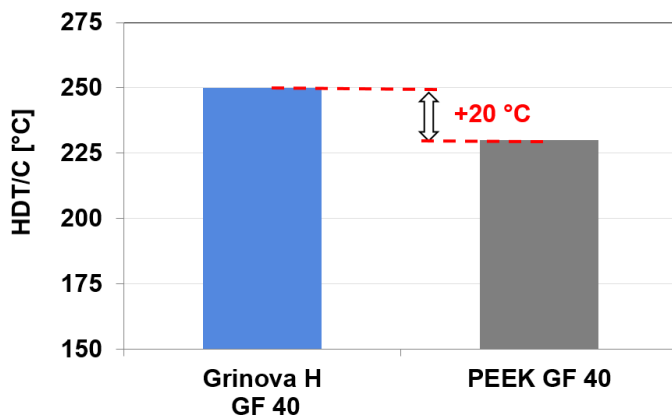
The optimum balance between high stiffness and ductility, even at elevated temperatures, opens up a wide range of possibilities for realizing challenging metal replacement solutions.



Grinova T has a 128 % higher creep modulus at room temperature than PA66

- **High creep resistance** → very robust and with a long working life
- **Very good ductility across fiber orientation** → high deformability of components under load.
- **High stiffness** → Simplified component design due to improved mechanical properties.

Grinova H- Highest thermal dimensional stability. Creep resistant at high temperatures.



The heat distortion temperature (HDT/C) of Grinova H is around 20 °C higher than PEEK.

- **Extreme stiffness at high temperatures** → maximum stability under thermal loading.
- **Highest creep resistance** → long-term strength and reliability, for designs with low wall thicknesses, making maximum cost and weight savings possible, even at high temperatures.
- **Outstanding in the heat** → the heat distortion temperature (HDT/C) 20°C higher than PEEK, enables realization of strong and reliable applications in many industrial sectors.

Set us a challenge

Experienced employees at EMS-GRIVORY accompany customers through the entire development process for new applications. EMS-GRIVORY offers a comprehensive range of services from the initial idea through to series production. These include support in the concept phase, feasibility and economic feasibility studies, selection of optimum materials, customized comparative studies and advice on component and tool design. In addition, the range of services also includes process optimization and development as well as follow-up processes to ensure efficient and sustainable implementation.



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