

## **PRESS INFORMATION**

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### ***Fakuma Press Release***

#### **Flame-protected EMS specialty polyamide for stationary energy storage systems**

### **Nilar relies on flame-retardant EMS specialty polyamides for its stationary energy storage systems**

**The Swedish innovation company Nilar, relies on flame-retardant partially aromatic polyamides from EMS-GRIVORY for structurally stressed end plates in its electricity storage systems.**

#### **Nilar sets standards in the development of sustainability battery systems – with EMS**

Nilar, a leading innovation company from Sweden, sets standards in the development and manufacture of high-performance battery systems. These battery systems enable flexibly scalable stationary energy storage systems, referred to as Electrical Energy Storage (ESS) systems. Their main purpose is to store surplus generated electricity, for example from photovoltaic systems, making it available at a later date. This ensures a continuous supply of clean solar energy around the clock, and significantly increases consumption of self-generated green electricity, thus making a positive contribution to environmental protection and reducing the need for fossil fuels. In addition, Nilar's long-lasting nickel metal hydride (NiMH) technology is characterized by robustness and safety, providing a highly reliable alternative to conventional lithium-ion batteries.

With a strong focus on sustainability and environmental protection, Nilar is putting maximum effort into shaping a greener energy future. The company is committed to promoting efficient use of renewable energy sources and developing stationary energy storage systems that meet the requirements of a sustainable energy supply. Nilar's technological innovations and high-quality battery systems are helping to move the world in a more environmentally friendly direction and reduce dependency on fossil fuels.

#### **Flame-retardant polyamides from EMS-GRIVORY ensure the stability and reliability of Nilar's battery packs**

Nilar's battery packs are equipped on each side with an end plate made of highly rigid, halogen-free flame retardant Grivory GV. In combination with the surrounding steel straps, these end plates ensure uniform compression of the cells over the electrode surface, provide protection for the cell stack, and provide necessary electrical insulation. One of the end plates also serves as a stable support structure for the battery pack's integrated monitoring unit. A key factor for success is the exceptional creep resistance and recyclability of EMS-Grivory's high-performance polymers. During the charge and discharge cycle, the cell stack expands when heated and contracts again after cooling down. The polymer materials used must be able to withstand this cyclical permanent stress, preventing weakening of pretension in the steel bands and retaining their stability.

Nilar is setting new standards in the industry with this proven material choice of EMS high-performance polymers, ensuring the long-term performance and safety of its innovative energy storage systems.

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Source: Nilar



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