

Graphmatech launches the world's most conductive processable composite

The award-winning Swedish startup Graphmatech succeeded in launching a new world record material in just 22 months and less than 1 million euros since the company was founded. On average, this process takes seven years and tens of millions of euros. Graphmatech recently presented the new product for the first time at the NanoForum in Malmö, where the company received the Nanotechnology Company of the Year award in the Nordic region last year.

The product launched by Graphmatech of Uppsala is called Aros Create. These are Nylon Aros Graphene[®] pellets with a volume resistivity of less than 1 Ω cm while maintaining polymer lightweight, flexibility, processability, and recyclability. The new composite may e.g. be used for extrusion, compression molding and injection molding and has unique electrical and tribological properties (low and stable coefficient of friction and high wear resistance). The potential applications are diverse, but the company's main focus is on electrical circuit components, LED, conductive coatings, additive manufacturing, EMI / RFI shielding, and charge dissipative coatings.

The basic invention of Graphmatech was the graphene hybrid material Aros Graphene[®], which is the missing link for the large-scale use of graphene because it does not agglomerate, keep the graphene stable, and readily disperse and tune into various matrices. However, Graphmatech does not sell the Aros Graphene[®] itself but has decided to integrate Aros Graphene[®] in the next step in the value chain and to sell composites of plastics, metals or additives for energy storage applications.

The company has already received a major order from AddNorth, which will soon prepare for the market launch of conductive polymer-based filaments for 3D printing.

"We've done it on a laboratory scale, distributing Aros Graphen[®] well in a range of engineering polymers with world record results in terms of conductivity, so more products are coming soon," says Dr. Mamoun Taher, CEO and co-founder of Graphmatech.

The expansion of production was realized with partners, but from 1 September 2019 Graphmatech leases its own 1350 m² production facility in Uppsala, Sweden.

A pack of 1 kg conductive nylon pellets Aros Create can be ordered from the Graphmatech webshop. While larger orders should be requested.



A pack (1 kg) of conductive nylon pellets Aros Create, Foto: Graphmatech

More information, pictures, and data regarding Graphmatech can be found at www.graphmatech.com.

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