
Versarien Unveils Breakthrough New Range Graphene-based Compounds

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Versarien PLC has launched an innovative portfolio of graphene and related nanomaterial-based thermoplastic polymer compounds, branded under the name Polygrene.

This, it says, is the culmination of extensive collaborative efforts with the International Institute for Nanocomposites Manufacturing (IINM) at WMG, [University of Warwick](#).

The new range has potential applications across a variety of industries, including sports equipment, construction products, aerospace and automotive components. This versatility showcases the adaptability and strength of the new graphene-infused materials.

Since 2018, [Versarien](#)'s subsidiary, 2-DTech Ltd, has funded PhD and postdoctoral researchers who have been exploring the applications of the material science group's Nanene graphene powders within thermoplastic systems.

Dr David Reinoso-Arenas, the first PhD student sponsored by 2-DTech Ltd and supported by the EPSRC Doctoral Training Programme, has played a significant role in the development of these materials, the company said.

"The new Polygrene thermoplastics portfolio is a culmination of my PhD research, some of which is due to be published in peer-reviewed journals," said Reinoso-Arenas.

"Since then we've been able to further develop and test these materials using different nanomaterial fillers and process conditions to fully optimise the resulting product performance.

"My PhD experience at the IINM and WMG was really enjoyable and enabled me to work closely with industry to ensure that the outputs of my research could be validated and have commercial viability."

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