

Graphene based composites becomes a reality in 2020

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Abstract (Century Gothic 11)

The application bulk graphene materials in composites is predicted to be the largest market for graphene, followed by energy storage [1]. Several reviews analysed the applications of the different graphene and related products in composites. [2, 1b] Several products based on composites, mainly in sport good sector, claims that are based on graphene materials. Sport good sector only represent less than 3 % of the whole composite market.[3]

In this presentation we will report the potential market and actual large volume application in the polymer composites sector.

Several new applications and the use of GRMs in products will be reported.

References

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- [2] a) P Samori, I A Kinloch, X Feng and V Palermo, 2D Mater. 2, (2015) 030205 b) R. J. Young, I. A. Kinloch, L. G., Kosty. S. Novoselov, Composites Science and Technology, 72, (2012)1459-1476
- [3] J. Gomez. Graphene in thermoplastic and composites, view of the market.
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Figures



Figure 1: GRM application in rubber



Figure 2: Application of GRMs in a thermoplastic
