

Graphene: opportunities for multifunctional lightweight structures in automotive sector

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In the automotive sector, several motivations push the industry to achieve better performances at low weight. Environmental constrains, fashionable appearances and electronical comfort can be reached by new materials that are capable of multifunctional and lightweight behavior. Graphene-based composites are one of the most promising categories of such materials, due to the multiple properties that graphene related materials can give to a plastic automotive component. Since many years, CRF is working to face the challenges of this integration, keeping in mind the safety and the durability of the automotive product. The presentation will give an overview of the activities performed and a glance to the future possible applications.

References

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Figures



Figure 1: Dashboard plastic component filled with graphene nano platelets for invisible button integration