

HydroGraph Announces Graphene PET Enhancement Results

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The results were positive, indicating a 22% increase in elasticity and a 114% increase in strength compared to virgin PET. The advancements could potentially save the US plastics economy up to \$75m.

[HydroGraph Clean Power](#), a certified graphene manufacturer, has released positive test results indicating that its proprietary graphene can enhance the performance of polyethylene terephthalate (PET).

The tests, conducted at the Graphene Engineering Innovation Centre at the [University of Manchester](#), England, [UK](#), aimed to determine if HydroGraph's fractal graphene, FGA-1, could improve PET's mechanical properties.

HydroGraph revealed significant improvements, including a 22% increase in elasticity and a 114% increase in strength against breaking compared to virgin PET.

In addition, the strength at yield was enhanced by 13% to 15%. These advancements could lead to a reduction in the material used for plastic bottles by 10% to 15%.

Read the [original article](#) on Packaging Gateway.