

Review of: "Investigation of the Dielectric Behaviour of Propylene Glycol (100) Dispersed With Graphene Nano Powder to Determine the Optimal Conditions Using Response Surface Methodology"

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Potential competing interests: No potential competing interests to declare.

The title of the manuscript expresses the dielectric behavior. However, I did not find any parameters related to dielectric constant or dielectric loss. Only electrical conductivity has been given priority. It is not understood why authors have used graphene nanopowder?

Then, in the materials and methodology section, it is not needed to explain the basics of the materials used. It is necessary to explain the propylene glycol and graphene powder ratio. What are the experimental conditions/parameters so that graphene powder will remain in a dispersed state? A detailed description is required. Again, in section 2.1, the basic description of electrical conductivity has been provided. It is not necessary to provide this in a research manuscript. It is given especially in a book chapter.

No experimental parameters related to dielectric behaviour have been provided. Then how is the RSM model validated to be accepted by experimentalists? Why has the author chosen the RSM model? Explain in detail....The R² values in linear and 2F1 are 0.9756 and 0.9818. How will they be improved?

What is the accuracy of the RSM model? Provide error analysis.

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