

Review of: "Analytical Study and Amelioration of Plastic Pavement Material Quality"

Farida El-Dars¹

¹ Helwan University

Potential competing interests: No potential competing interests to declare.

1. The idea is novel. This should be reflected in the title as: "Evaluation of the use of plastic waste material as pavement construction substitutes." The study is physical/mechanical and not chemical, even though it uses heat treatment.
2. The abstract must indicate the importance of the work in the country, i.e., the extent of plastic waste, and a brief of the findings of the work. Limit the amount of experimental data in this section and stress the results.
3. Introduction: The first paragraph can be removed, and the focus on the problem at hand starts in paragraph 2.
4. Do not go into details concerning previous studies and their results, but only mention them and their outcomes. It is important to use these details in the discussion of the work's results.
5. In the aim, state what the purpose of the work is (remove first sentence).
6. In the preparation of specimens, it is better to insert a table with the % of each plastic waste and % sand used while indicating names such as (sample 1, sample 2, etc.).
7. In the results and discussion, do not re-mention the % of samples and their composition, but it's easier to state "Prepared plastic waste formulations in table ."
8. Figure 6 is crowded; rearrange to clarify important results of the test.
9. If possible, can the results be combined in a table and figures be used to explain the main property changes in composites formulated?
10. At the end of the discussion, an economic evaluation of the use of plastic waste must be stated. The purpose of using waste is more than environmentally viable; it must be also economically viable as well as durable. For example, the prices should be compared, as well as the durability of each material, and a plan on how to start a pilot project to gather plastic waste should be outlined. Think environmental and economic—this is what leads to sustainability.