

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

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Potential competing interests: No potential competing interests to declare.

This manuscript describes an experimental study on using polyethylene terephthalate (PET) and polypropylene (PP) as binding materials in different proportions for producing plastic pavement. The experimental data is interesting, but not vast. However, discussion of results is limited, and sometimes explanations cannot be fully understood. The materials used were not characterized in terms of their composition and properties, which is possibly decisive for understanding the results. Manuscript writing and images can be significantly improved. Authors should consider the following questions:

- The absence of X-ray Diffraction (XRD), Thermogravimetry (TG), and Differential Thermal Analysis (DTA) curves of the waste makes it difficult to understand their influence on the behavior of the pavement.
- In Fig. 1, demonstrations of the already crushed material can be added to promote visual understanding.
- In the sample preparation topic, images of the prepared samples are missing. The method is not well described. How were the proportions chosen? Based on what? How was the temperature of 168°C chosen? Why were the plastics melted for 10 minutes? Was homogeneity achieved after 25 minutes? This information is not clear.
- To describe the tests carried out, crucial information is missing, for example, test temperature, number of samples, equipment used, loading speed...
- Fig. 6 and 8 are difficult to read.
- The aging effect of the material needs to be evaluated for its possible application. UV degradation exposure testing is paramount.

The idea has potential. Good luck to the authors.