

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 paper investigated the manuscript entitled "Analytical Study and Amelioration of Plastic Pavement Material Quality"

I found the paper well-written, and the authors made an effort. I have many suggestions to improve the presentation before accepting it for Qeios. The following comments are provided for the authors:

1. The authors may reduce the number of words in the abstract section and mention the most significant results in the abstract section.
2. The authors should mention the most recent research about the topic.
3. Kindly revise the manuscript; N/mm², g/cm³, numbers should be superscripted.
4. The authors should mention the lack of research on this topic and clarify the novelty of the work.
5. The authors should mention the reason for selecting the used materials in this study.
6. The authors should provide a schematic for the process conducted on the material and actual images of the used materials.
7. The authors should provide more physical and chemical analysis of the coarse sand,
8. The authors should provide a schematic about the preparation of the composites and more information, such as the stirring speed, the temperature, why they chose these conditions.
9. The equipment name, the test speed, the temperature, number, and size of the samples for each test must be provided.
10. The authors should provide references for the equations.
11. The figures of the results were not clear; the y-axis must be provided with units, and the x-axis is not clear. The title above the graph can be mentioned in the caption of the figure.
12. The authors should provide a discussion about the results, the reason for the increase in the properties, and the reasons for the decrease in the properties, supported with results from the literature.
13. I suggest to start with the physical properties; the results of the mechanical properties may be affected by the porosities.
14. The authors may provide a micrograph of the interface between the particles and the polymer.
15. The results should be compared with results from the literature.

16. The conclusion should reflect the results numerically with an explanation.