

Review Form 1.7

Journal Name:	Journal of Engineering Research and Reports
Manuscript Number:	Ms_JERR_118545
Title of the Manuscript:	INVESTIGATING THE THERMAL STABILITY AND WATER ABSORPTION CAPACITY OF POST-CONSUMER RECYCLED LOW DENSITY POLYETHYLENE HYBRID COMPOSITE
Type of the Article	

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PART 1: Review Comments

	Reviewer's comment	Author's comment (if agreed with reviewer, correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)
<p>Compulsory REVISION comments</p> <p>1. Is the manuscript important for scientific community? (Please write few sentences on this manuscript)</p> <p>2. Is the title of the article suitable? (If not please suggest an alternative title)</p> <p>3. Is the abstract of the article comprehensive?</p> <p>4. Are subsections and structure of the manuscript appropriate?</p> <p>5. Do you think the manuscript is scientifically correct?</p> <p>6. Are the references sufficient and recent? If you have suggestion of additional references, please mention in the review form.</p> <p><u>(Apart from above mentioned 6 points, reviewers are free to provide additional suggestions/comments)</u></p>	<p>The manuscript is important for the scientific community because it addresses the growing interest in green and eco-friendly composite materials aiming for environment protection. The findings provide valuable insights into some properties of these composites, applicable in building and construction sector.</p> <p>The current title seems suitable as it describes the study's focus on "Investigating the thermal stability and water absorption capacity of post-consumer recycled low density polyethylene hybrid composite". An alternative title could be: "Investigating the thermal characteristics and water absorption capacity of post-consumer recycled low density polyethylene hybrid composite".</p> <p>The abstract seems suitable as it describes the realized research and provides the main results. I recommend to review some terms and interpretations in red colour within the abstract.</p> <p>The manuscript is well-structured and the sections are appropriately detailed.</p> <p>I included in the manuscript in red colour many terms, questions and comments to be reviewed in depth in order to strengthen the whole manuscript and ensure scientific coherence in interpreting the experimental results and establishing appropriate correlation between these results and the structure and behaviour of the constituents of the studied composite. Although, the measurements are made on HPC composite materials, the thermal phenomena and properties are related only to some of their constituents, namely, the rPE. Hence, authors are invited to distinguish between the behaviour of the whole composite and that of the constituent showing the transition.</p> <p>Yes, references are sufficient and recent.</p> <p>I invite the authors to review the manuscript taking into consideration the various terms, questions and comments put in red colour within the manuscript.</p>	
<p>Minor REVISION comments</p> <p>1. Is language/English quality of the article suitable for scholarly communications?</p>	<p>The English quality of the article requires improvement taking into consideration the various terms, questions and comments put in red colour within the manuscript.</p>	
<p>Optional/General comments</p>	<p>The manuscript merits major revision.</p>	

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PART 2:

	Reviewer's comment	Author's comment <i>(if agreed with reviewer, correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)</i>
Are there ethical issues in this manuscript?	<i>(If yes, Kindly please write down the ethical issues here in details)</i>	

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