

Review Form 3

Journal Name:	Journal of Materials Science Research and Reviews
Manuscript Number:	Ms_JMSRR_130407
Title of the Manuscript:	Composite Film of Poly Lactic Acid and Polyvinyl Alcohol with Carbon Nanotube Reinforcement: Insight Mechanical Property Analysis
Type of the Article	

PART 1: Comments

	Reviewer’s comment	Author’s Feedback <i>(Please correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)</i>
Please write a few sentences regarding the importance of this manuscript for the scientific community. A minimum of 3-4 sentences may be required for this part.	The manuscript meets the current research demand for sustainable single use plastic products such as shopping bags and packaging sacks. The choice of materials selection is a perfect decision made. However, this researchers should recommend solvent (xylene) recovery to manage environmental effect of solvent pollution.	Thanks for comments.
Is the title of the article suitable? (If not please suggest an alternative title)	Suggested title: Composite Film of Poly Lactic Acid and Polyvinyl Alcohol reinforced with Carbon Nanotube: Insight Mechanical and Thermal Properties Analyzes. (This suggestion is based on the fact that the manuscript contain specified mechanical and thermal properties)	Thanks for comments. Revised as per your suggestion.
Is the abstract of the article comprehensive? Do you suggest the addition (or deletion) of some points in this section? Please write your suggestions here.	“PLA-PVA film stacking is a promising approach for developing sustainable and biodegradable packaging materials. The technology involves stacking films made from polylactic acid (PLA) and polyvinyl alcohol (PVA) in a layered arrangement. PLA-PVA films have desirable properties such as good oxygen and moisture barrier, excellent mechanical strength, and low toxicity. The stacking technique offers versatility in film composition and layer thickness, enabling customization to meet specific packaging needs. Additionally, the biodegradability of PLA and PVA offers a sustainable alternative to traditional plastic packaging. This abstract provides an overview of the PLA-PVA film stacking technology and its potential benefits for sustainable packaging. Recent years, there has been an increasing interest in developing sustainable and high-performance packaging materials” The above points should be deleted from the abstract. They are better as part of introduction.	Thanks for comments. Revised as per your suggestion.
Is the manuscript scientifically, correct? Please write here.	Yes, the manuscript is scientifically correct.	Thanks for comments.
Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.	The references are sufficient and recent. The references cover from 2000 to 2023.	Thanks for comments.

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Is the language/English quality of the article suitable for scholarly communications?	Yes. However, author(s) should proof read the manuscript and make amendment of English quality where necessary.	Thanks for comments.
Optional/General comments	1. The processing parameters presented in range should be replaced with actual parameter's value used. E.g instead of 80 – 105.0 °C and 120 – 130 °C reported the exact drying temperature used should be reported. 2. This expression as contained in 2.2.3 should be rephrased for clarity “For that, after centrifuging for one time water is added to the centrifuging tube. The tube contains 12.0 ml solution. When the optimal pH (7.0) was achieved the remaining CNT was filtered by the filter paper and dried at 100.0°C in a hot air oven overnight. And the CNT was again formed like powder” 3. The step taken to achieve pH 7.0 of CNT was omitted from the process. Please, include it. 4. The step taken to know that the sample (film) is completely dried should be mentioned. For example: when constant weight was observed after 2-3 consecutive heating and reweighing.	Thanks for comments. Revised as per your suggestion.

PART 2:

	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)
Are there ethical issues in this manuscript?	<u>(If yes, Kindly please write down the ethical issues here in details)</u>	Ethically sound