

## Review Form 1.6

Journal Name:	<b>Journal of Materials Science Research and Reviews</b>
Manuscript Number:	<b>Ms_JMSRR_93382</b>
Title of the Manuscript:	<b>Comparison-based analysis of epoxy resin using Core-Shell Rubber.</b>
Type of the Article	<b>Original Research Article</b>

### **General guideline for Peer Review process:**

This journal's peer review policy states that **NO** manuscript should be rejected only on the basis of '**lack of Novelty**', provided the manuscript is scientifically robust and technically sound. To know the complete guideline for Peer Review process, reviewers are requested to visit this link:

(<https://journaljmsrr.com/index.php/JMSRR/editorial-policy> )

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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)
<b>Compulsory</b> REVISION comments	<p>This is a worthwhile manuscript. Pertinent results are reported. At the same time, it is not well written and improvements are needed:</p> <p>The Abstract is unusually long and has to be shortened dramatically. As it is now, it can only frighten potential readers away. The authors do not even know what an abstract is; they write "the testing revealed that samples that contained the addition of CSR showed better mechanical properties". By definition, an abstract says what has been found.</p> <p>We read: "Epoxy resin resembles the class of thermosetting polymers ...". There is just one epoxy resin ? That resin resembles thermosetting polymers ? Actually, epoxy resins are a class of thermosetting polymers. Their advantages are discussed in review articles [1-3].</p> <p>What does "poor resistance to initiation" mean ?</p> <p>The keyword "modified" has to be removed.</p> <p>The title of Section 2 is "Tensile strength test". This is not true. More than one test has been performed. An appropriate title would be: Tensile strength testing. The tensile elongation at break appears in the equation defining the brittleness B of polymers [4, 5] – a fact worth mentioning.</p> <p>Similarly, the title of Section 3 is wrong. Actually, both Izod and Charpy impact strength values are related to B [6, 7].</p> <p>The section title "Conclusion" is wrong. A conclusion can be stated in one sentence. Conclusions would be an appropriate title.</p> <p>In References, what does "Kaneka Texas" mean ?</p> <p>References:</p> <ol style="list-style-type: none"> <li>1. B. Bilyeu, W. Brostow &amp; K.P. Menard, Epoxy thermosets and their applications. I. Chemical structures, J. Mater. Ed. 1999, <u>21</u>, 281.</li> <li>2. B. Bilyeu, W. Brostow &amp; K.P. Menard, Epoxy thermosets and their applications. II. Thermal analysis, J. Mater. Ed. 2000, <u>22</u>, 107.</li> <li>3. B. Bilyeu, W. Brostow &amp; K.P. Menard, Epoxy thermosets and their applications. III. Kinetic equations and models, J. Mater. Ed. 2001, <u>23</u>, 189.</li> <li>4. W. Brostow, H.E. Hagg Lobland &amp; M. Narkis, Sliding wear, viscoelasticity and brittleness of polymers, J. Mater. Res. 2006, <u>21</u>, 2422.</li> <li>5. W. Brostow &amp; H.E. Hagg Lobland, Materials: Introduction and Applications, John Wiley &amp; Sons 2017.</li> <li>6. W. Brostow &amp; H.E. Hagg Lobland, Brittleness of materials: Implications for composites and relation to impact strength, J. Mater. Sci. 2010, <u>45</u>, 242.</li> <li>7. W. Brostow, H.E. Hagg Lobland &amp; S. Khoja, Brittleness and toughness of polymers and other materials, Mater. Letters 2015, <u>159</u>, 478.</li> </ol>	
<b>Minor</b> REVISION comments		

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<b>Optional/General</b> comments		

**PART 2:**

	<b>Reviewer's comment</b>	<b>Author's comment</b> <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>
<b>Are there ethical issues in this manuscript?</b>	<i>(If yes, Kindly please write down the ethical issues here in details)</i>	

**Reviewer Details:**

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