Review of: "Investigation of the properties of the composition obtained based on mixtures of polyvinyl chloride"

Hind Guemmour

Potential competing interests: No potential competing interests to declare.

REVIEW COMMENTS ON

Investigation of the properties of the composition obtained based on mixtures of polyvinyl chloride

By Kerem Shixaliyev

THE FOLLOWING RECOMMENDATIONS FOR THE IMPROVEMENT OF THE QUALITY OF THE PAPER

1/ The propose of the title ''Investigation of physico-mechanical properties of rubbers based on polyvinyl chloride and ethylene-propylene elastomers ''

2/ You have mentioned several keywords 8 are enough, you used just 4 or 5.

3/ The introduction is very short!!!!!!!!!!!!!!!!!!!

4/ Check the grammar, the article is badly written and presented; you must improve it respecting the form of an article Introduction, materials and methods, results and discussion and a conclusion.

5/ The content of the methodology part you move it to the results and discussions and you add the title materials and methods and delete the title methodology because you present the results.

6/ You give the spectra of this value and you explain methods (FTIR Spectroscopy)

860, 1210, 1250, 1620, 1710, 3200-3600 cm -1 absorption fields are observed;980, 1050, 1100, and m -1 absorption areas are strengthened Weakening of the 720 cm -1 absorption area. The disappearance of the SREPT absorption area indicates the loss of (including) end groups in SREPT.

7/ Clarify more your work: The structural changes of PVC macromolecules during processing, the formation of the absorption area at 860 cm-1, and the strengthening of the area at 3030 cm-1 indicate the formation of a connection between PVC and SREPT. ??????????????????

8/ Figure 1 and Figure 2 need to be redrawn because they are not clear. Try to trace them using Origin or Excel. The same of the figure 3 and figure 4.

9/ The author must homogenise his text (Justify, symbols PVX-DBF,.....

10/ You have not shown how you found these values ‘’The onset temperature of decomposition of SREPT PVC (80:20) mixtures is -380°C, and that of SKEPT alone is -360°C. The half-decomposition temperatures are -440°C and 425°C, respectively. The non-combustible residue of the SKEPT PVC (80:20) mixture at 500°C is (10-12)% by mass’’.

11/ You must compare the results of the physico-chemical properties with the results obtained in the literature.

Rating of paper 3/10

This article needs major revision, cannot be published in this form