

External examiner's review of a Master's thesis

Student's name and surname: Samuel Osei Owusu
Degree programme: N0722A130002 Polymer Engineering
Degree course:
Specialization
(if the degree course is divided into specializations):
Department: Department of Polymer Engineering
Supervisor of the Master's thesis: doc. Ing. Alena Kalendová, Ph.D.
External examiner of the Master's thesis: doc. Ing. Martina Polášková, Ph.D.
Academic year: 2023/2024

Title of the Master's thesis:
Biopolymers in Packing Application

Assessment of the Master's thesis using the ECTS grading scale:

Assessment criteria	Assessment according to the ECTS
1. Fulfilment of the assignment criteria	F – Fail
2. Level of quality of the formal aspects of the thesis, including the level of linguistic quality	F – Fail
3. Amount, topicality and relevance of the literature sources consulted	E – Sufficient
4. Description of experiments and implementation methods	E – Sufficient
5. Level of quality of processing of the results	F – Fail
6. Interpretation of the results achieved and discussion thereof	E – Sufficient
7. Formulation of the conclusion of the thesis	E – Sufficient

Select the option the submitted thesis for defence and propose the following assessment:

E – Sufficient

Comments on the Master's thesis:

The submitted thesis does not reach the standard level of theses defended at the Department of Polymer Engineering in terms of form and content.

Therefore, for the defence, I have following recommendation: to evaluate results in an appropriate quality and to draw suitable conclusions from them. Particular attention should be paid to missing units, use of unusual unit without explanation, graphs without legends, poor rounding in tables, stating the same results in graphs and tables, confused or missing discussion of results.

Questions to be asked by the external examiner of the Master's thesis:

According to Table 3, samples consisting only of polylactic acid and orotic acid were also prepared. Why are these samples not included in the other experiments and results?

For what reason was the filling amount of 1% clay chosen.

On page 18 you state that the glass transition temperature increases with crystallinity, can you explain this.

In Zlín on **24. 05. 2024**

Signature of the external examiner of the Master's thesis