

Supervisor's Review of a Master's thesis

Student's name and surname: Mgr. Bohdan-Volodymyr Berezhnyy
Degree programme: Polymer Engineering
Department: Department of Polymer Engineering
Supervisor of the Master's thesis: Ing. Martin Stěnička Ph.D.
Academic year: 2024/2025

Title of the Master's thesis:

The influence of the vulcanization system on the ozone stability of rubber compounds

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

Assessment criteria	Assessment according to the ECTS
1. Topicality of the literature sources consulted	A – Excellent
2. Application of knowledge gained from literature	A – Excellent
3. Theoretical aspect dealt with in the thesis	A – Excellent
4. Description of experiments and implementation methods	B – Very good
5. Level of quality of processing of the results	B – Very good
6. Interpretation of the results achieved and discussion thereof	A – Excellent
7. Formulation of the conclusion of the thesis	A – Excellent
8. Student's approach to the Master's thesis	A – Excellent

I recommend the submitted thesis for defence and propose the following assessment:

A – Excellent

Comments on the Master's thesis:

In his Master's thesis, student Bohdan-Volodymyr Berezhnyy dealt with the influence of the vulcanisation system on the ozone stability of rubber compounds. The theoretical part comprised chapters on natural rubber, the composition of rubber compounds, the vulcanisation of natural rubber, the production of compounds, ozone stability and testing, which provided a suitable overview for

potential readers. The practical part of the thesis first presents the composition and production of the rubber compounds used, followed by the results and discussion of the experiments performed. The thesis is summarised in the conclusion.

As Bohdan-Volodymyr's supervisor, I would like to acknowledge his interest in and commitment to the topic. He tried to work independently and seemed to learn new things. He conducted many experiments for his thesis, thus accumulating a large number of results. However, in attempting to discuss all of these results, this section of the thesis may appear overly complicated and difficult to understand.

Nevertheless, I am convinced that the work presented meets all the basic criteria for this type of thesis. I therefore recommend that it be accepted for the successful defence of the Master's thesis and award it a grade of: A – Excellent.

The Theses.cz system has detected percentage of similarity with other documents amounting to a maximum of 2 %. It is an authentic.

Questions to be asked by the Master's thesis supervisor:

I have no questions to the student.

In Zlín on **25. 05. 2025**

Signature of the Master's thesis supervisor