| THESIS REVIEWER'S OPINION | | | | | | | | | | |
|---|---|---|---|------------|---|---|---|--|--|--|
| Student's full name | BSc. Sudhir Kumar | | | | | | | | | |
| Thesis title | Influence of interrupted vulcanization on the rubber to metal | | | | | | | | | |
| | bonding strength | | | | | | | | | |
| Reviewer's name | Ing. Petr Zádrapa, Ph.D. | | | | | | | | | |
| Degree course | Polymer Engineering | | | | | | | | | |
| Mode of study | Full-time | | | | | | | | | |
| Thesis evaluation criteria | Classification grade according to ECTS | | | | | | | | | |
| Structure | | | | | | | | | | |
| Outline and division | | A | В | ϵ | Đ | E | F | | | |
| Language level | | A | B | E | Đ | E | F | | | |
| Formatting (citations, presentation) | | A | B | E | Đ | E | F | | | |
| Content | | | | | | | | | | |
| Thesis statement formulation | | A | В | Е | Ð | £ | F | | | |
| Sources and their utilization | | A | В | Е | Ð | £ | Ŧ | | | |
| Methods of processing the research problem | | A | B | Е | D | £ | Ŧ | | | |
| Level of analytical and interpretive components | | A | B | E | D | E | F | | | |
| Formulation of conclusions and meeting the objectives | | A | B | Е | D | E | F | | | |
| Originality and vocational contribution | | A | B | C | Đ | Đ | F | | | |

Evaluation justification (strengths and weaknesses of thesis):

Presented master thesis deals with the effect of interrupted vulcanization of the rubber on the rubber to metal bonding.

The goals of the work are as follows:

- make a literature review on the given topic
- prepare rubber mixtures differing in their composition
- perform vulcanization of suggested rubber mixtures interrupted at different degrees
- measure the stiffness of prepared rubber to metal bonding
- evaluate and interpret obtained results

Total length of the work is 75 pages. The theoretical part is written on 34 pages and at the beginning it contains description of rubber types and additives. Vulcanization of the rubber is clarified in the next chapter and last chapter deals with rubber to metal bonding. Theoretical part drawn inspiration from 56 references mostly from last 15 years. Formal level has quite high quality as well as language level.

Practical part is written on 21 pages and its quality is lower. Rubber compounds were chosen from some company with unknown composition, not prepared as is given by the second aim of the work. Vulcanization curves have an important role in thesis, however they are missing at all, although RPA is described as used device.

All results are given in graphs. The discussion is always given in previous page than the graph is, which is not very clear. There is also not mentioned, how many samples were tested and statistics is missing at all.

In my opinion, the quality and interpretation of the results should be done in better way. All that thing are reflected in my marking.

Therefore, I recommended the thesis for the defense.

| Questions to be answered by student: 1. What was the main purpose of this word 2. How many samples did you test for ead 3. Why do you think, that sulphur is the vulcanization? 4. Why you did not use some mould for results also from the samples with low described by the samp | the main reason of the best r the sample preparation? In | anizat bond | tion o | degree at 70 | ? % i | | |
|--|---|----------------|--------|-----------------|----------|---|---|
| | | | | | | | |
| | | | | | | | |
| Overall mark** | | | В | Е | D | E | F |
| | | A | Ð | - | ע | Ė | Ť |
| Date: 26 th May 2014 | Signature: | | | | | | |

^{*} Circle the appropriate determination.

** Overall mark is not a mathematical average of individual marks.