



THESIS EVALUATION OPPONENT EVALUATION

Author name:

Md Nazrul Islam, B.Sc.

Thesis title:

Fabrication of Various Nanofibrous Hybrid Membranes for Separation of Micro-Particles

Opponent:

Aysegul Gul, MSc.

Opponent workplace:

Institute for Nanomaterials, Advanced Technologies and Innovation

Overall assessment:

The main aim of this study is the investigation of effects of lamination pressure on the breathability, water permeability, and surface wettability of multi-layered nanofibrous membranes by using air permeability, surface pore size, water filtration, and contact-angle tests. The theoretical part, as well as the tests and analyses, are sufficient to achieve the study's goal. This study is appropriate for a master's thesis. I have some remarks about theoretical parts:

- Which kind of pollutants and filtration methods were used (Table. 1.) should be mentioned in the table.

Questions for the defense:

- a) In the conclusion part, a general statement has been made that the temperature has a negative effect on filtration. When the results are examined, it is possible to say this effect only for PA6, while for other polymers, we can say that the temperature has not a regular effect on filtration. How do you explain this situation?

Overall classification and recommendation:

I suggest to classify this work by grade: **Excellent (1)**

By signing I certify that I am not in any personal relationship with the author of the thesis.

In Liberec 3th September 2021