

## Revision Form

### Abstract (Abstrak) \*

**Author :**

*Abstract is a complete summary and explains the overall content of articles that consist of background, research objectives, methods used and the results of the research and significance or benefit of the research (results of research written in sentences form not written by numbers). Abstract written in English using Times New Roman font 11 pt, single spaced, and no more than 200 words. Keywords consist of 3-5 words. (11pt)*

**Response :**

Synthesis and characterization of chitosan/PEG4000 with  $\text{LiCF}_3\text{SO}_3$  salt as a surfactant was carried out to determine crystalline size using X-Ray Diffraction (XRD) and dielectric constant using Electrochemical Impedance Spectroscopy (EIS). Fabrication of the electrolyte polymer membrane of chitosan/PEG4000 with  $\text{LiCF}_3\text{SO}_3$  salt using the solution casting method. The result of XRD showed that the crystalline size of the chitosan, chitosan/PEG4000, and chitosan/PEG4000 electrolyte polymer membranes with  $\text{LiCF}_3\text{SO}_3$  salt experienced a  $2\theta$  angle shift and formed a semicrystalline phase. The peak intensity increase occurred after chitosan was added with PEG4000 with  $\text{LiCF}_3\text{SO}_3$  salt. The crystalline size obtained for the electrolyte polymer membrane of chitosan, chitosan/PEG4000, and chitosan/PEG4000 salt  $\text{LiCF}_3\text{SO}_3$  was 4,002 nm; 2,474 nm, and 4,183 nm. Meanwhile, the type of structure produced by chitosan, chitosan/PEG4000, and chitosan/PEG4000 electrolyte polymer membranes with  $\text{LiCF}_3\text{SO}_3$  salt is a semicrystalline phase. The dielectric constant for solid electrolyte polymer membranes of chitosan/PEG4000, and chitosan/PEG4000 with  $\text{LiCF}_3\text{SO}_3$  salt are 3,4 and  $16,6 \times 10^3$ . Result of XRD and EIS show that chitosan/PEG4000 polymer membrane with  $\text{LiCF}_3\text{SO}_3$  salt as a surfactant can be applied as an alternative to solid electrolyte polymer secondary batteries.

### Introduction (Pendahuluan) \*

**Author :**

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**Response :**

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### Method (Metode) \*

**Author :**

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**Response :**

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### Result (Hasil) \*

**Author :**

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**Response :**

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### Discussion (Pembahasan/ Diskusi) \*

**Author :**

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**Response :**

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Conclusion (Kesimpulan) \*

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Literature Cited (Kepustakaan) \*

**Author :**

mengacu pada format sitasi APA (American Psychological Association) 6th edition.

**Response :**

Sudah dilakukan perubahan

Notes/ Reason (Catatan) For Author: \*

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