

**IONIC CONDUCTIVITY OF LITHIUM ION
CONDUCTORS BASED ON PVC – PEMA BLENDS**

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This Final Year Project Report entitled “**Ionic Conductivity of Lithium Ion Conductors Based on PVC – PEMA Blends**” was submitted by Mohd Zufadli Bin Mohd Rosli, in partial fulfillment of the requirements for the Degree of Bachelor of Science (Hons.) Physics, in the Faculty of Applied Sciences, and was approved by

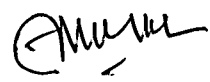


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ABSTRACT

In this work, Poly (vinyl chloride)(PVC) and Poly (ethyl methacrylate)(PEMA) is blended together with Tetrahydrofuran (THF) to act as a polymer host. Lithium triflate, LiCF_3SO_3 as a doping salts and Alimunium oxide, Al_2O_3 as an inorganic filler will be added to prepare solid polymer electrolyte film of the composite type. All films were prepared by the solution casting technique and was characterized for their electrical properties by impedance spectroscopy.