

## BFA21

### Study on the Polymer Electrolytes based on Porous P(VdF-co-HFP) Matrix for Supercapacitor

다공성 P(VdF-co-HFP)를 기초로 한  
초고용량 캐패시터용 고분자 전해질에 관한 연구

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The supercapacitor has been importantly considered as a rechargeable pulse power source or backup power supply for electric vehicles and electronic devices. To fabricate supercapacitor with high energy and power density, the use of a thin-layer electrolyte is effective. The application of the polymer electrolytes to supercapacitor can lead to thin film cells. In our study, we prepared the plasticized polymer electrolytes based on the porous P(VdF-co-HFP) matrix and assembled unit cells for the supercapacitor. We evaluated their performance with cycles. The ion conductivities and interfacial characteristics were also investigated by a.c. impedance spectroscopy.