

## Studies on dielectric properties and structural analysis of blend polymer PVP-PVA thin films for energy storage/conversion devices application

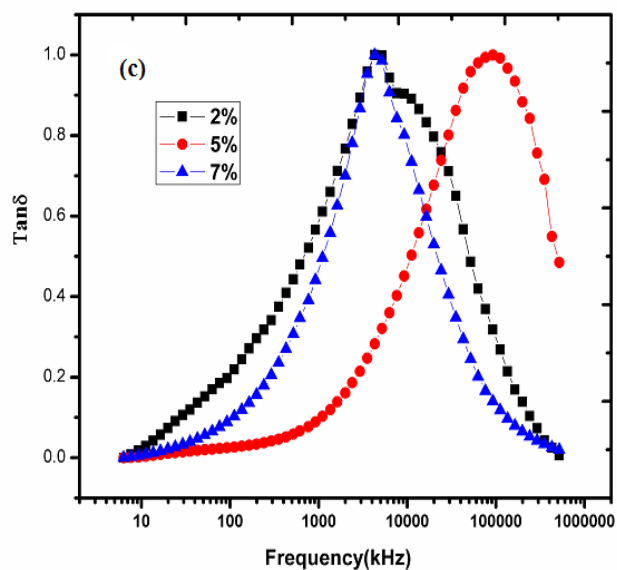
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**Abstract:** In the present paper the based on PVP-PVA+NaCHO<sub>3</sub> blend polymer electrolytes. The analysis of dielectric material for PEs films were calculated the dielectric permittivity ( $\epsilon'$ ) versus frequency (kHz) for various concentrations of sodium salts at room temperature. The surface morphology of the prepared free standing polymer electrolyte films of the various types is analysis by the SEM. The carriers charge accumulation is found at low frequencies range and due to high value of dielectric permittivity is account of electrode–electrolyte interface representing the non- Debye type of performance in the PEs Films. The polarization problem of the field is very quick leading to inhibition at high frequencies, the polarization of the dipoles along the field direction resulting is less ion diffusion toward the field direction. This will tell us low value of dielectric permittivity value at high frequencies.



### Reference:

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