

# Supplementary Material (ESI) for Journal of Materials Chemistry  
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Electronic Supplementary Information

**Fig.S1.** Variation of dielectric constant with temperature for polymer electrolytes having composition DMOImTf + PVdF-HFP + 2M HCF<sub>3</sub>SO<sub>3</sub> +x(ml) PC with (a) x = 0 and (b) x = 0.1 at 42Hz(●), 100Hz(x), 200Hz(○), 400Hz(+), 600Hz(◇) and 1KHz(▲).

**Fig.S2.** Dependence of conductivity upon temperature for plasticized polymer electrolytes having composition DMOImTf + PVdF-HFP + 2M HCF<sub>3</sub>SO<sub>3</sub> + 0.1ml PC during first heating (○), cooling (-) and second heating (x).

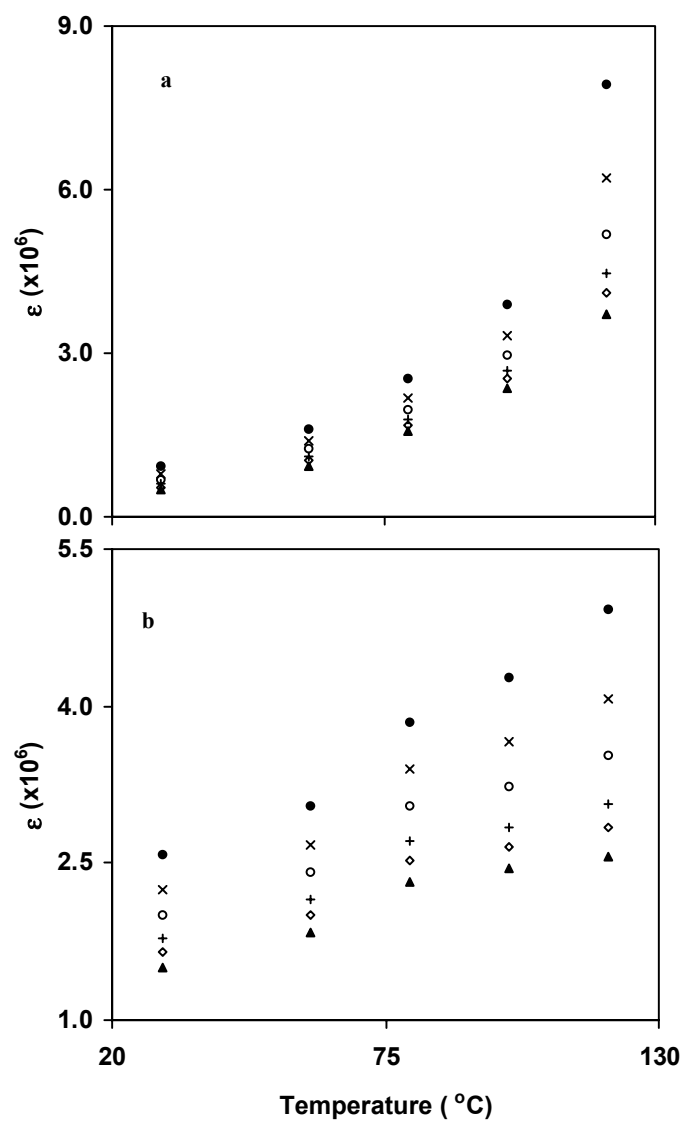


Fig. S1

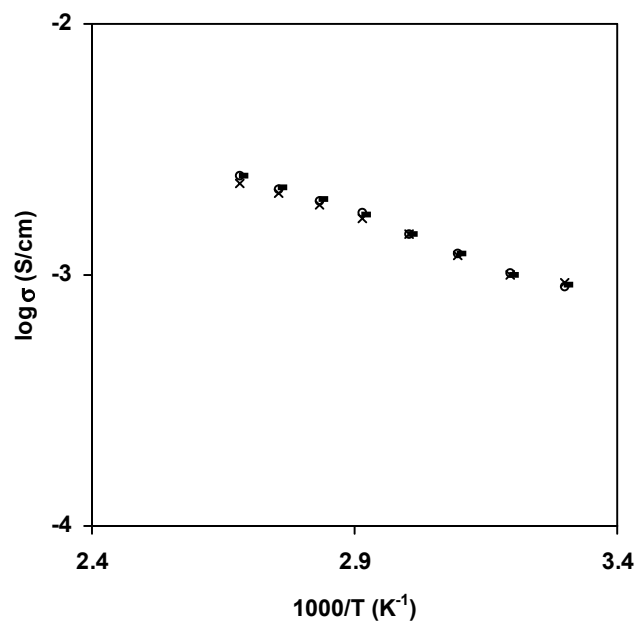


Fig. S2