

Supplementary Materials

Nitrogen-Doped Carbon Nanotube/Polypropylene Composites with Negative Seebeck Coefficient

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Table 1. Electrical volume conductivity σ of PP composites filled with N-MWCNT A1 or N-MWCNT IFW at different temperatures.

Sample	σ at 40 °C (S/m)	σ at 60 °C (S/m)	σ at 80 °C (S/m)	σ at 100 °C (S/m)
PP/2 wt% N-MWCNT A1	8.3×10^{-2}	8.1×10^{-2}	7.8×10^{-2}	7.1×10^{-2}
PP/3 wt% N-MWCNT A1	2.2	2.5	2.3	2.2
PP/4 wt% N-MWCNT A1	5.6	5.5	5.3	5.1
PP/5 wt% N-MWCNT A1	4.3	4.2	4.1	3.9
PP/7.5 wt% N-MWCNT A1	26.4	26.0	25.3	24.4
PP/1.5 wt% N-MWCNT IFW	2.7	2.6	2.7	2.7
PP/2 wt% N-MWCNT IFW	10.5	10.4	10.4	10.4
PP/3 wt% N-MWCNT IFW	29.0	28.7	28.6	28.5
PP/4 wt% N-MWCNT IFW	64.3	63.7	63.0	62.4

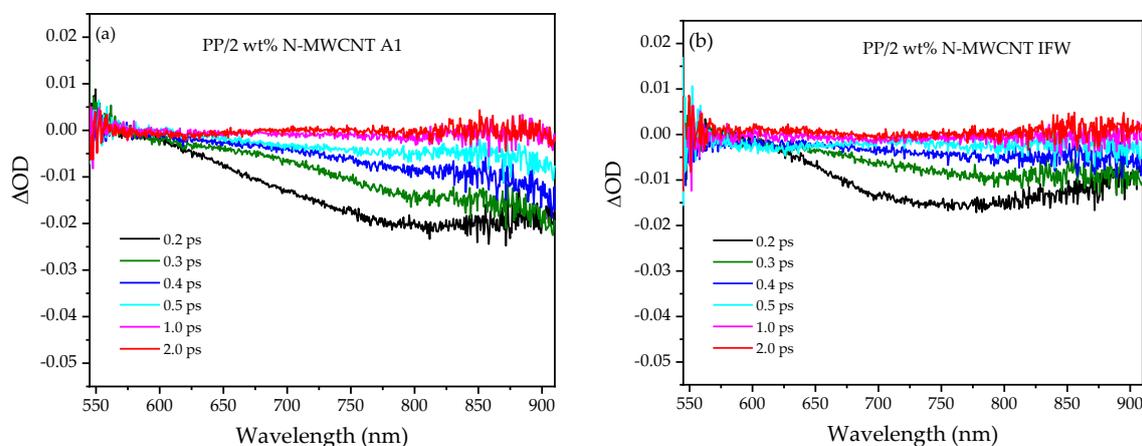


Figure S1. Typical TAS spectra of ΔOD as a function of wavelength at various delay times for (a) PP/2 wt% N-MWCNT A1 and (b) PP/2 wt% N-MWCNT IFW.



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