SUPPORTING INFORMATION

Flexible Fiber Membrane Based on Carbon Nanotube and Polyurethane with High Thermal Conductivity

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Fourier transform infrared (FTIR) spectra measurements were performed with a resolution of 4 cm^{-1} and a range from 500 to 4000 cm^{-1} via KBr pressed disc technique.

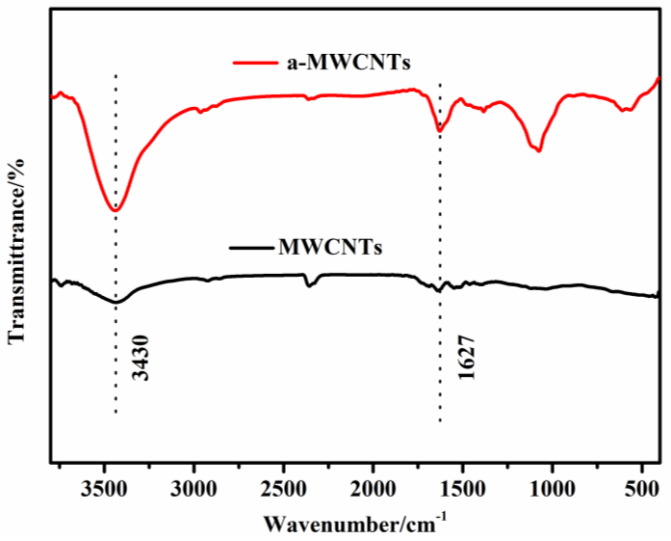

Figure S1 FTIR spectra of MWCNTs and a-MWCNTs.

Table S1 A comparison of the enhancement of thermal conductivity forCNTs-

based film-like composites.

Filler loading	Polymeric matrix	λ (W/mK)	Enhancement (%)	Ref.
2 wt% MWCNTs	PAN	4.825	234	[28]
35.3 wt% CNTs	NFC	19.3	1135	[36]
15 wt% CNTs	PVDF	1.12	747	[37]
4 wt% MWCNTs	PI	0.63	461	[38]
10 wt% MWCNTs	PA6	1.159	232	[39]
5 wt% CNTs	EP	1.0	441	[19]
10 wt% MWCNTs	TPU	3.60	1800	Our work