

Supporting Information

Thermoelectric Properties of N-Type Poly (Ether Ether Ketone)/Carbon Nanofiber Melt-Processed Composites

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Table S1. Thermoelectric properties of carbon nanotube and carbon nanofiber powders and their melt-processed PEEK composites.

Sample	Filler content	Conduc- tivity	Seebeck Coefficient	Power Factor	Reference
	wt. %	S m ⁻¹	μV K ⁻¹	μW·m ⁻¹ ·K ⁻²	
SWCNT Tuball™	100 (powder)	1790	39.6	2.8	1
MWCNT Nanocyl™ NC7000	100 (powder)	417	6.3	1.6 × 10 ⁻²	1
MWCNT CNS-PEG	100 (powder)	933	10.1	9.5 × 10 ⁻²	1
CNF Pyrograf® III PR 24 LHT XT	100 (powder)	133.5	-5.3	3.7 × 10 ⁻³	This work
CNF Pyrograf® III PR 19 LHT XT	100 (powder)	136.4	-5.1	3.5 × 10 ⁻³	3
PEEK-Tuball	0.5 -1.25	1.8-7.2	48.0 -61.3	6.6 × 10 ⁻³ -2.0 × 10 ⁻²	2
PEEK-Nanocyl® NC7000	3; 5	5.2; 51.7	7.3; 6.8	2.7 × 10 ⁻⁴ 2.3 × 10 ⁻³	2
PEEK- Nanocyl™ NC 7000	3; 4	1.1; 12.4	9.7; 9.2	1.0 × 10 ⁻⁴ 1.0 × 10 ⁻³	4
PEEK-CNS-PEG	0.5 – 3	8.8-97.1	13.4-16.1	1.8 × 10 ⁻³ 2.1 × 10 ⁻²	2
PEEK- CNF Pyrograf® III PR 24 LHT XT	10	27.5	-3.4	3.1 × 10 ⁻⁴	This work

References:

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