Electronic Supplementary Information

Ti_3C_2 MXene as A New Nanofiller for Robust and Conductive Elastomer Composites

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Table S1 Comparison of tensile strength and thermal conductivity with previously reported SBR composites.

Rubber	Filler	Filler Content	Tensile strength (MPa)	Thermal conductivity ($W•m^{-1}•K^{-1}$)	Ref.
SBR	Ti_3C_2	4phr	11.1	0.61	This work
SBR	GE[a]	5phr	16.2	0.25	1
SBR	GE	10.5 vol%	~5	~0.43	2
SBR	RGO[b]	3 wt%	~4.6	~0.27	3
SBR	GO[c]	4 phr	~8.5	~0.19	4
SBR	BN[d]	10.5 vol%	~7	~0.28	5
SBR	BNNS[e]	10.5 vol%	~16	~0.43	5
SBR	CNTs[f]	10phr	4.5	---	6
SBR	PCNTs[g]	3 wt%	~5.5	~0.30	3
SBR	CNTs/CB[h]	7phr/40phr	~22	0.30	7

[a] Graphene; [b] Reduced graphene oxide; [c] Graphene oxide; [d] Boron nitride; [e] Hexagonal boron nitride nanosheet; [f] Carbon nanotubes; [g] Polymer functionalized carbon nanotubes; [h] Carbon black.

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