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Supplementary information

Synthesis of grape-like conductive carbon black/Ag hybrid as the conductive filler for soft silicone rubber

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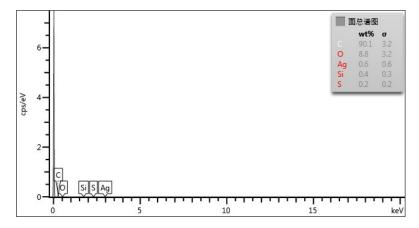


Fig. S1 The EDS spectra and elemental distribution of 6%SMCB@Ag/SR..

Fig. S2 Schematic of the reaction between each component.

Table S1 Summary of the performance of stretchable conductive composites.

Filler	Matrix	Conductivity	Electrical properties	Application	Ref.
		(S/m)			
MWCNT	SR	~1	-	-	2
MWCNT forest	PU	50-100	Almost constant for	-	40
			strain up to 40%		
MWCNT	PDMS	10-3	Decrease with the strain	-	9
CuNW-PVA	PDMS	83	Almost stable within	-	42
			60% strain		
Carbon fiber	PDMS	20-40	Almost stable within	Stretchable	41
			80% train	interconnects	
MWCNT-PDA-	SR	5	-	Electromagnetic	48
Ag	foam			shielding	
SMCB@Ag	SR	10	Stable within 100%	Stretchable	This work
			strain	conductor	