

Electronic Supplementary Information

Gel Actuators based on Polymeric Radicals

FTIR-spectrum after nucleophilic substitution with a nitroxide-containing amine

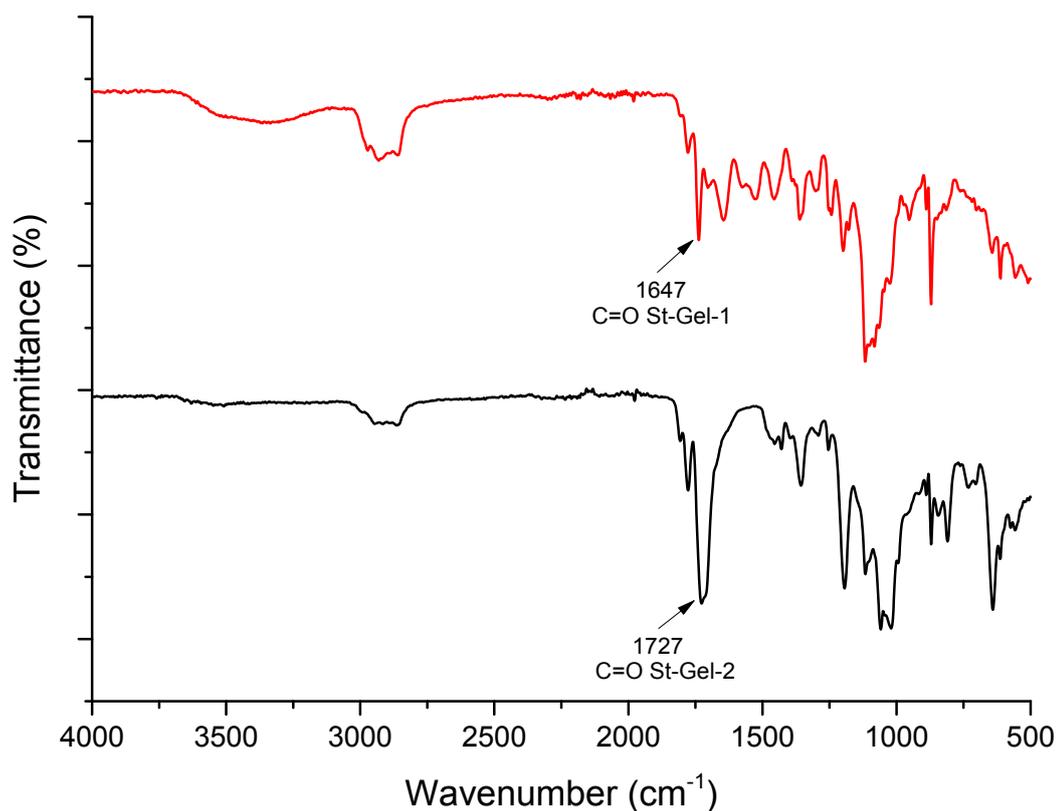


Figure. S1 FTIR spectra of prepared gels, gel **G1** (top), gel **G2** (bottom) showing substitution by amino-radical.

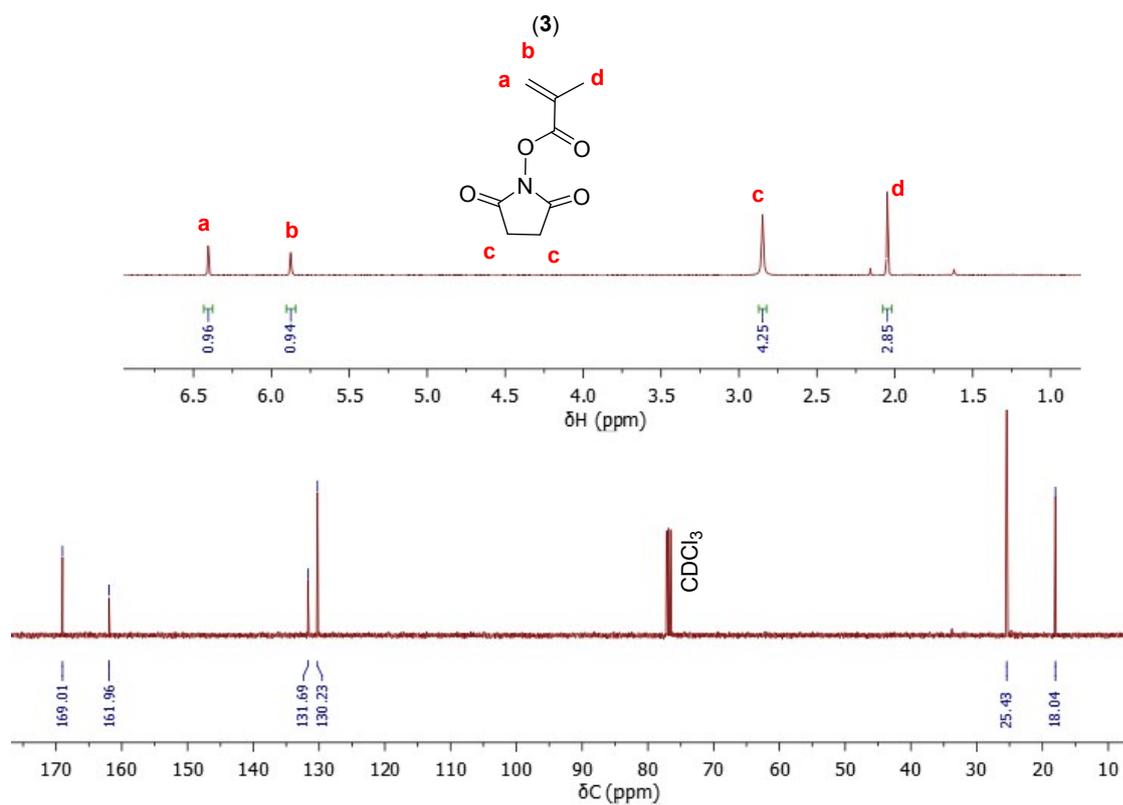


Figure. S2 NMR spectra of monomer **1**, ¹H NMR spectrum (top) and ¹³C NMR spectrum (bottom) in CDCl₃.

Table S1, Resulting compositions of gels with (**G2-C**), and without carbon fillers (**G2**)

Gel	Monomer 1 /mg	DMF/ mg	MWCNT /mg	FLG/ mg	Cross- linker /mg	ABCN/mg
G2	400	1400	-	-	30	20
G2-C	400	1381	14.6	4.4	30	20

