

Supplementary Materials: Self-Healable Supramolecular Vanadium Pentoxide Reinforced Polydimethylsiloxane-Graft-Polyurethane Composites

Ali Sabri Berkem, Ahmet Capoglu, Turgut Nugay, Erol Sancaktar and Ilke Anac



Figure S1. Vanadium pentoxide (V_2O_5) nanofiber (calcined at 150 °C) dispersed in DMSO.

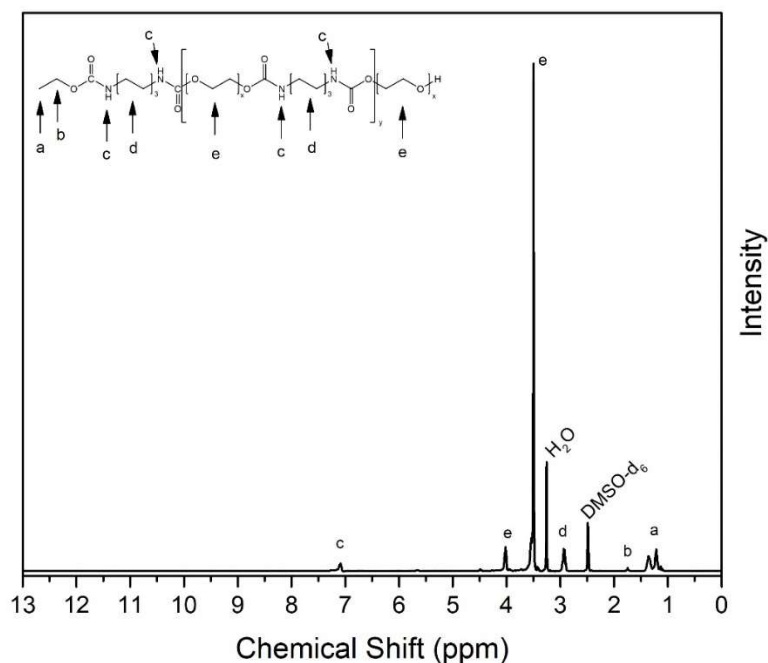


Figure S2. 1H NMR spectrum of PUR-OH polymer.

Table S1. Chemical composition of V_2O_5 nanofiber obtained from SEM-EDX analysis.

Element	Weight %	Atomic %
O-K	26.14	52.98
V-K	73.86	47.02

Table S2. Chemical composition of V_2O_5 nanofiber obtained from TEM-EDX analysis.

Element	Weight %	Atomic %
O-K	36.14	64.65
V-K	63.52	35.35

Table S3. T_g values of PDMS-g-PUR and PDMS-g-PUR/ V_2O_5 composites.

	T_{g1} (°C)	T_{g2} (°C)
PDMS-g-PUR	-53.1	-12.5
PDMS-g-PUR/V10	-31.4	-
PDMS-g-PUR/V30	29.4	-
PDMS-g-PUR/V50	28.2	-