

Supplementary Information

Low-Dielectric, High-Heat-Resistant Vinyl Benzyl-Terminated Bisphenol A Formaldehyde Resin

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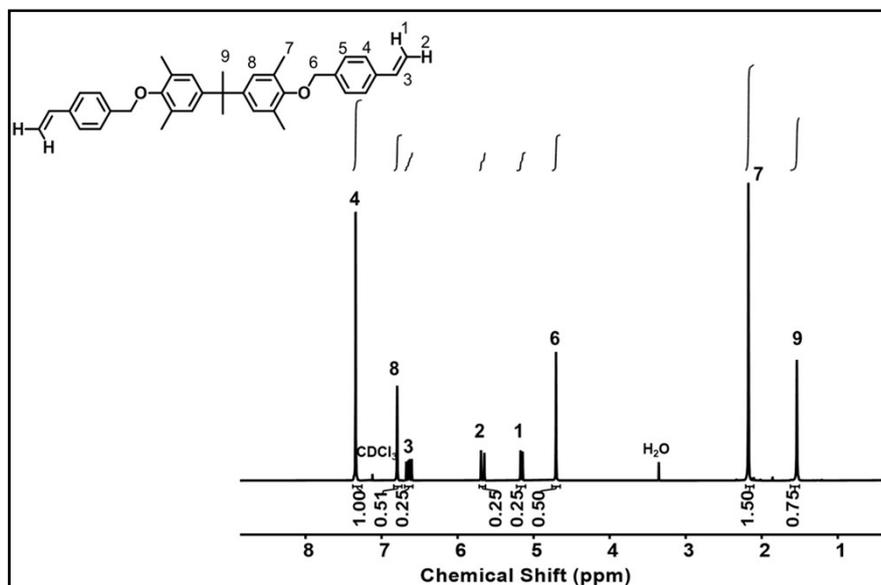
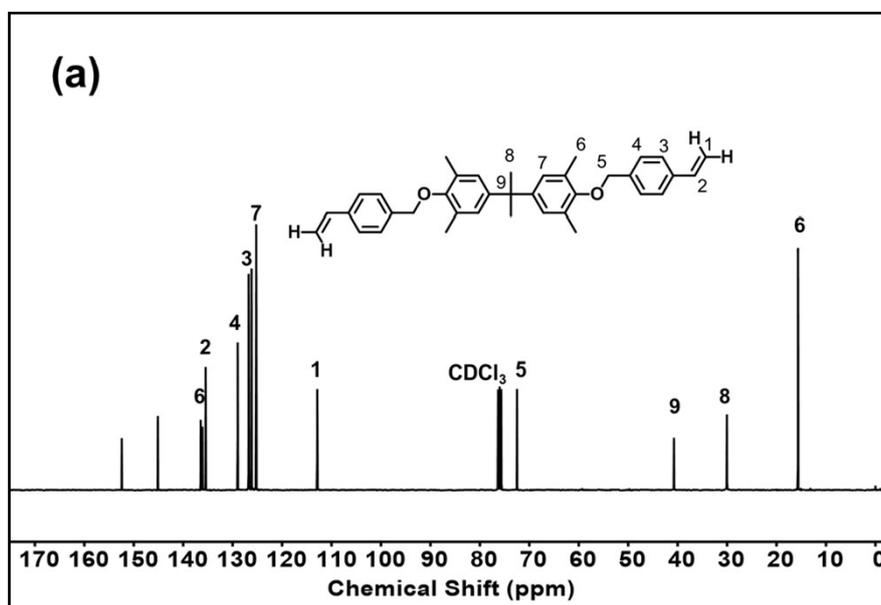


Fig. S1 ^1H NMR spectrum of V-TMBP



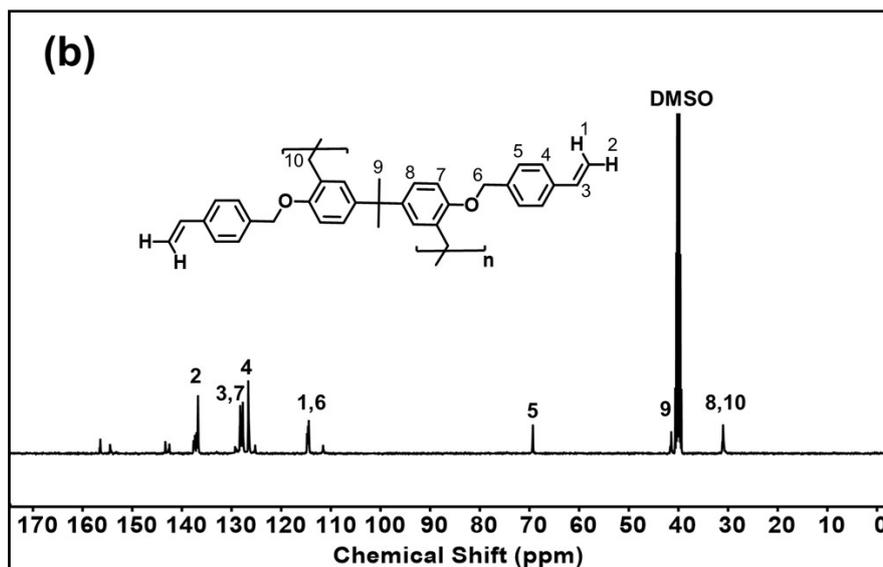


Fig. S2. ^{13}C NMR spectra of (a) V-TMBP and (b) V-BPF

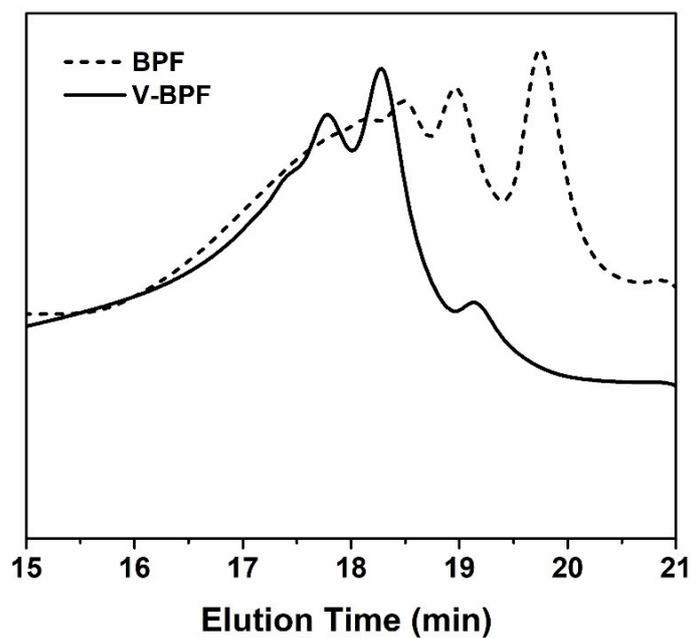


Fig. S3 Size exclusion chromatograms (SEC) of BPF and V-BPF

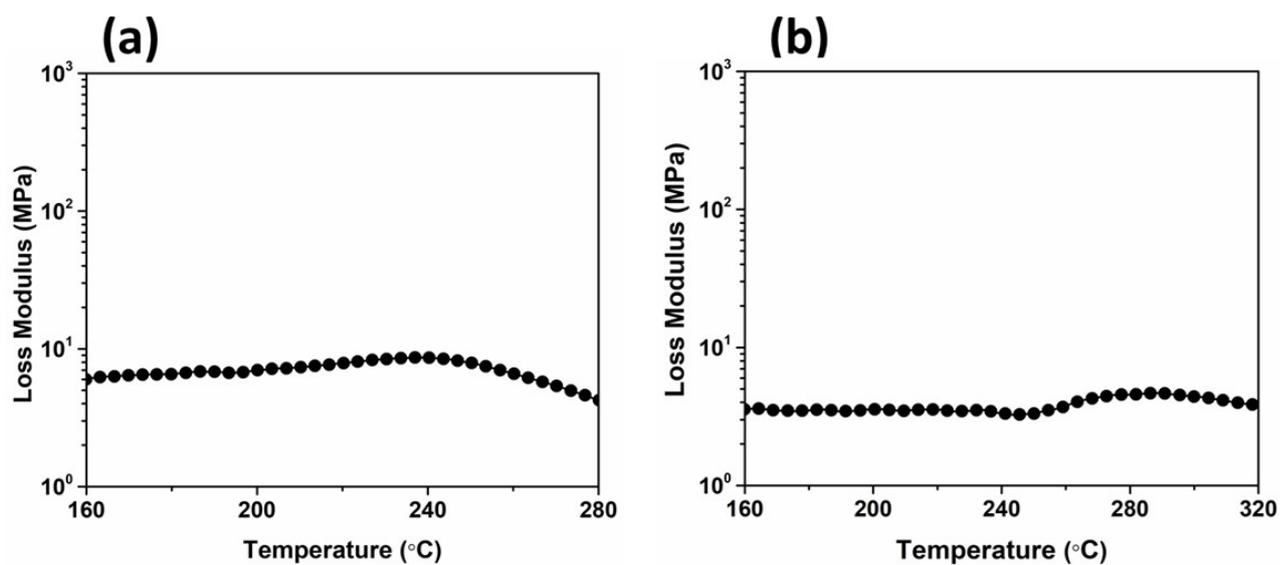


Fig S4. Loss modulus of a) C-(V-TMBP), b) C-(V-BPF)

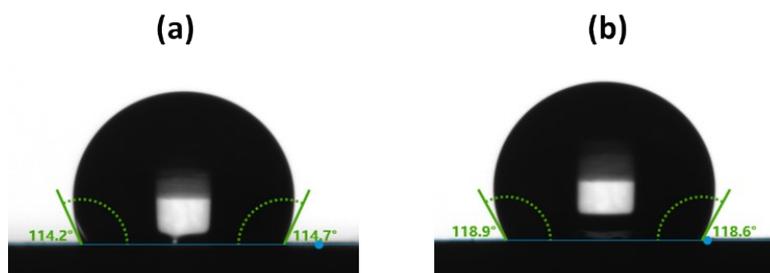


Fig. S5 Static water contact angle of (a)C-(V-TMBP) and, (b) C-(V-BPF)

Table S1. Molecular weight distribution of of BPF and V-BPF determined by GPC

Sample	M_w	M_n^a	PDI
BPF	1030	310	3.32
V-BPF	2790	1180	2.36

^aThe molecular weight of BPF and V-BPF was tested in a THF solution

Table S2. Solubility of V-TMBP and V-BPF

Sample	DMSO	DMF	THF	Acetone	Toluene	Chloroform	DCM
V-TMBP	+ -	+h	++	+h	++	++	++
V-BPF	++	++	++	++	++	++	++

++, soluble at room temperature; +h, soluble on heating (80°C); +-, slightly soluble on heating (80 °C). Solubility tests were conducted by taking 5 mg of sample in 2 mL of test solvent