

Supporting information

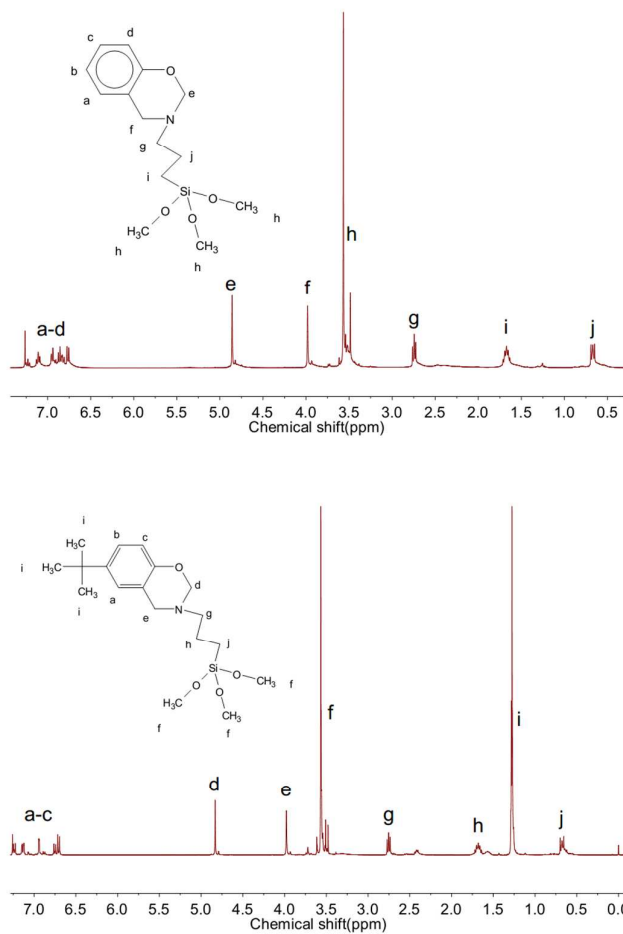


Figure S1 ^1H NMR spectrum of MP-TMOS

Table S1 Contact angles and surface free energies of MP-TMOS, P-TMOS and PTBP-TMOS polybenzoxazine films

Benzoxazine monomer	Curing temperature($^{\circ}\text{C}$)	Contact angle ($^{\circ}$)			Surface free energy γ_s (mJ/m 2)
		H $_2$ O	EG	DIM	

P-TMOS	120	92.6	64.8	45.9	33.44
	150	96.9	72.0	55.7	28.31
	160	101.0	77.7	59.6	25.83
	170	101.4	79.1	64.3	23.61
	180	104.7	84.5	70.8	20.14
	190	105.4	87.0	72.5	18.75
	200	105.3	91.4	74.0	16.37
	210	105.3	90.7	74.0	16.70
	240	103.7	90.4	69.9	17.30
MP-TMOS	120	101.9	79.7	56.0	26.37
	150	104.8	85.7	75.8	18.04
	160	105.5	86.6	77.2	17.42
	170	106.6	87.7	80.3	16.28
	180	106.9	94.4	75.6	15.07
	190	107.3	97.0	77.7	13.59
	200	107.6	97.4	79.1	13.28
	210	107.2	97.6	75.7	13.60
	240	106.0	92.2	76.1	15.73
PTBP-TMOS	120	99.2	79.5	52.4	25.83
	150	104.2	83.0	75.3	18.97
	160	106.4	90.5	79.4	16.55
	170	106.7	89.7	77.3	16.57
	180	106.9	94.2	78.1	14.65
	190	107.2	93.8	78.7	14.74
	200	106.5	94.8	78.5	14.45
	210	106.5	94.6	77.0	14.63
	240	106.3	91.5	76.5	15.99

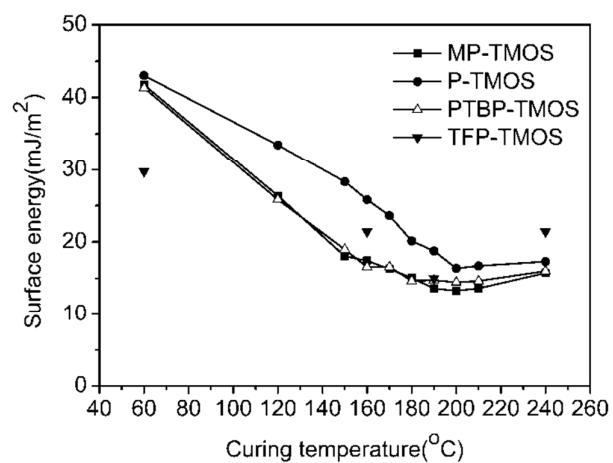


Figure S2. Variations of surface free energies of the MP-TMOS, P-TMOS and PTBP-TMOS polybenzoxazine cured at different temperature