

Supporting Information

Construction of enhanced self-plasticized PVC via grafting with bio-derived mannich base

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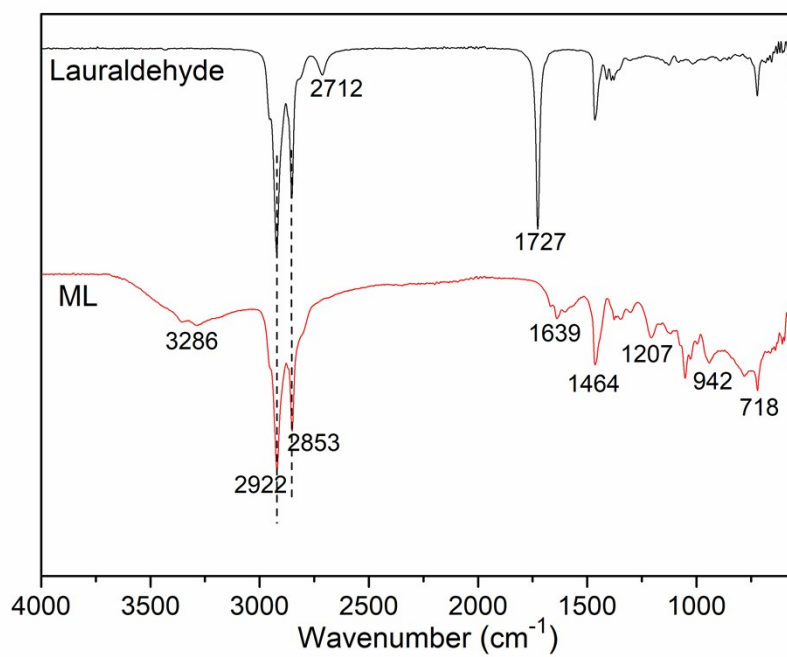


Fig. S1. FTIR spectra of lauraldehyde and ML.

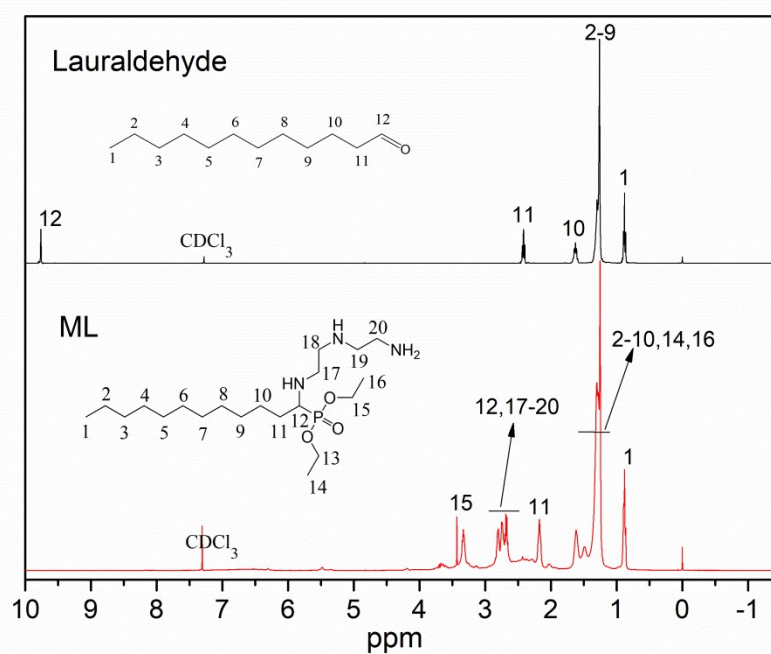


Fig. S2. ^1H NMR spectra of Lauraldehyde and ML.

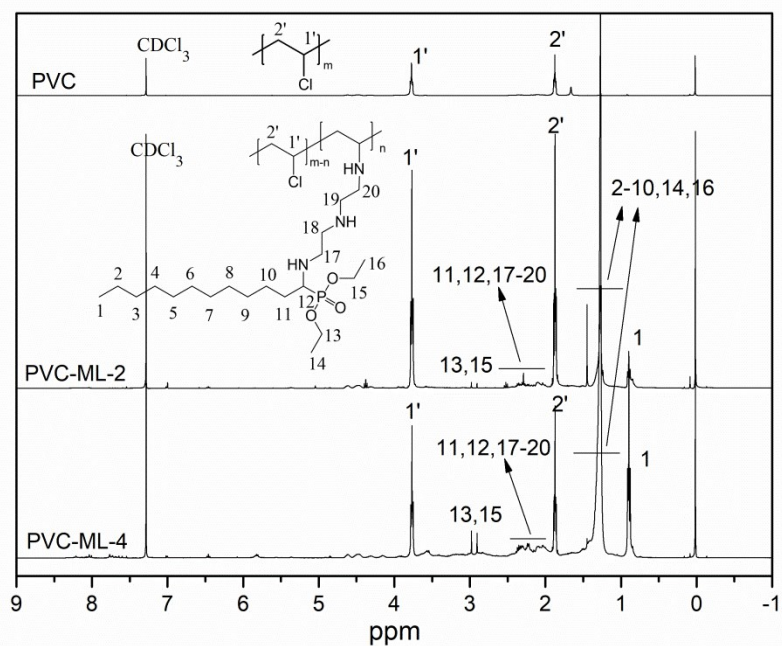


Fig. S3. ^1H NMR spectra of PVC-ML-g.

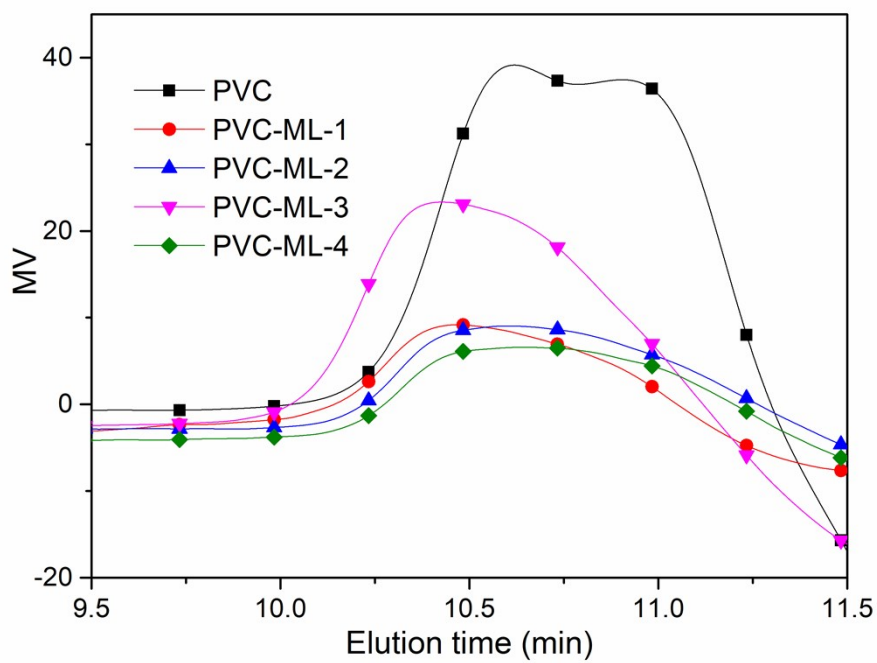


Fig. S4. GPC spectra of PVC materials.

Table S1. Relative molecular mass and distribution of different PVC film.

PVC films	Number average molecular weight (M_n , g/mol)	Weight-average molecular weight (M_w , g/mol)	Z-average molecular weight (M_z , g/mol)	Dispersity (M_z/M_w , g mol ⁻¹)
PVC	19381	22087	25362	1.1
PVC-ML-1	21742	24609	28062	1.1
PVC-ML-2	21976	24652	27565	1.1
PVC-ML-3	26582	30118	31198	1.1
PVC-ML-4	27011	30132	33856	1.1