

SUPPLEMENTARY INFORMATION

Modulating the T_g of Poly(alkylene succinate)s by Inserting Bio-based Aromatic Units via Ring-Opening Copolymerization

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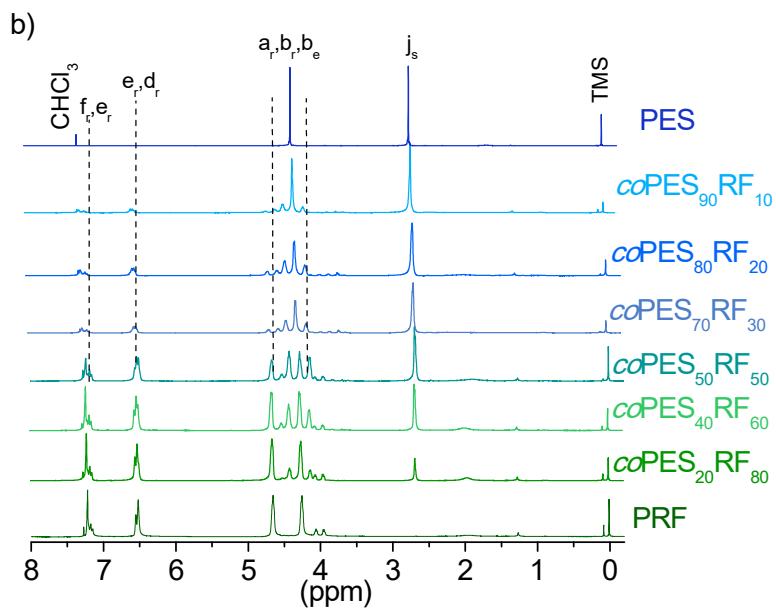
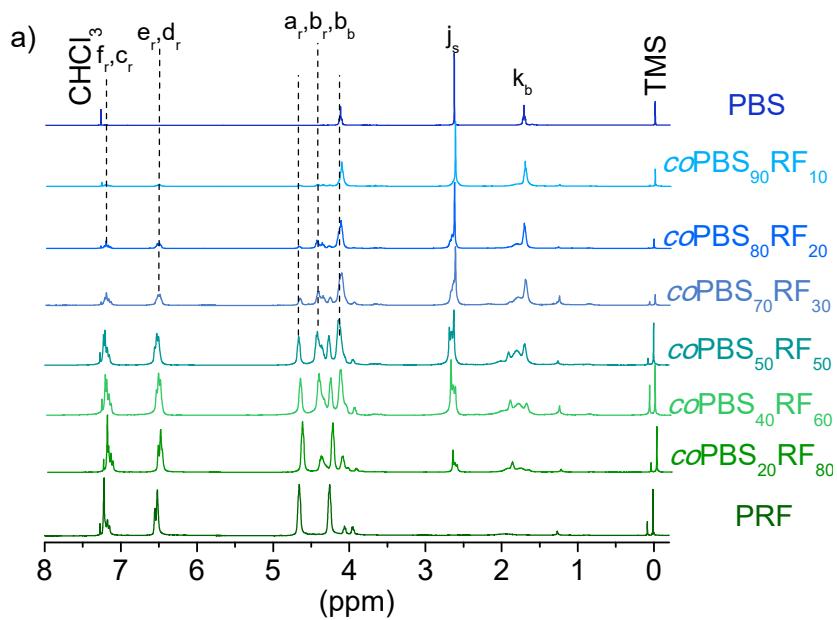
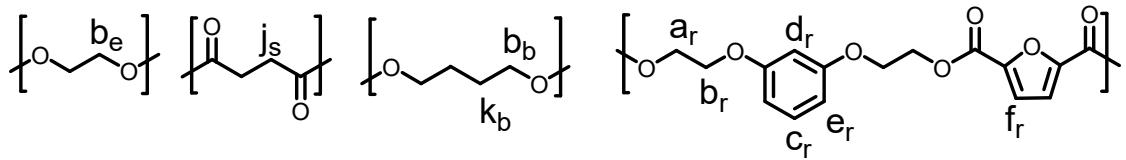


Figure S1. ^1H NMR of $\text{coPBS}_x\text{RF}_y$ and $\text{coPES}_x\text{RF}_y$.

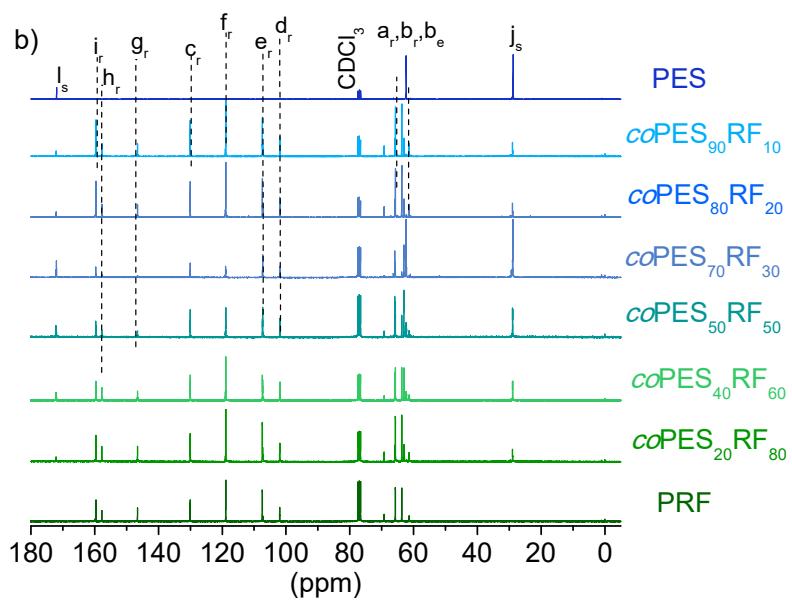
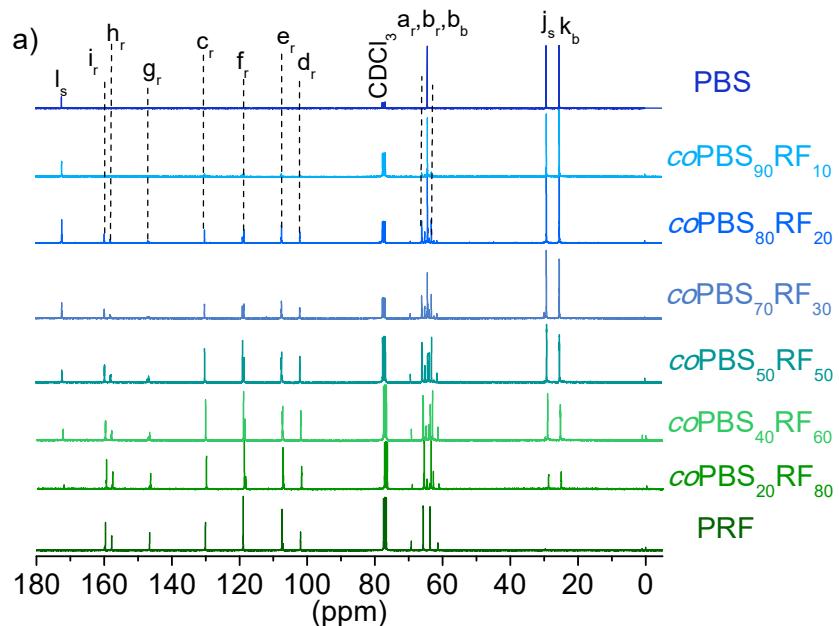
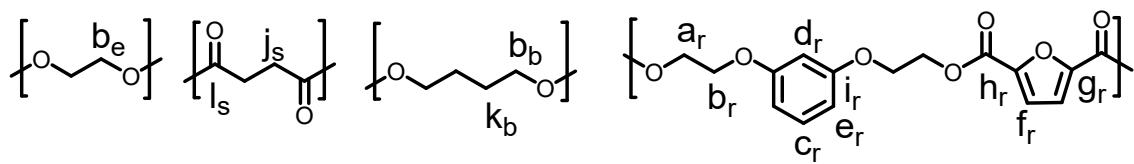


Figure S2. ^{13}C NMR of $\text{coPBS}_x\text{RF}_y$ and $\text{coPES}_x\text{RF}_y$.

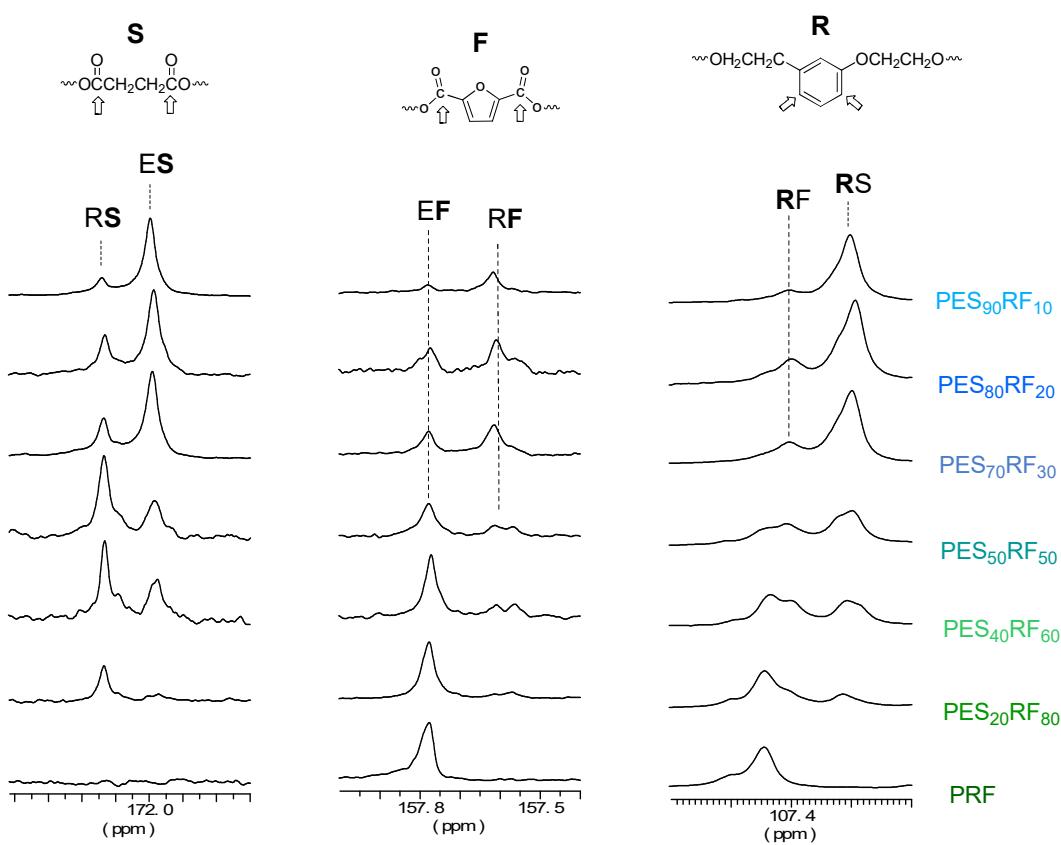


Figure S3. ^{13}C NMR spectra of $\text{coPES}_x\text{RF}_y$ copolymers in the regions of the carbonyls and aromatic carbons.

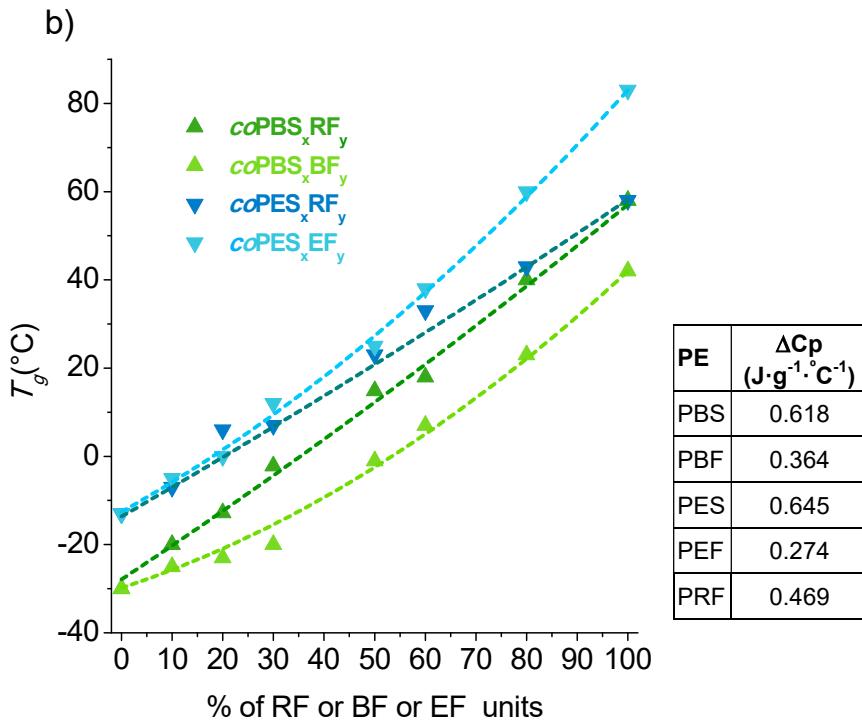
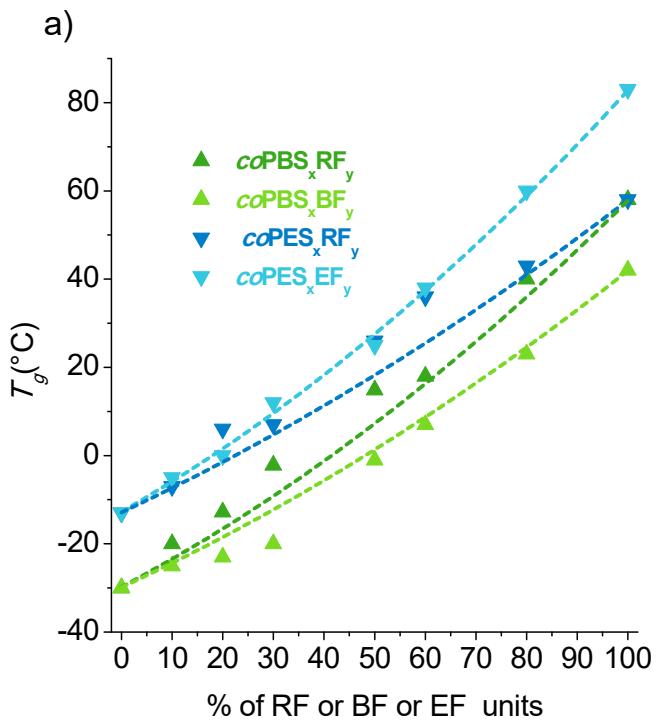


Figure S4. Comparison of predicted (dashed lines) and experimental (symbols) values of T_g for the copolymers synthesized in this work. a) Fox equation. b) Gordon-Taylor equation. Inset: Heat capacity values measured by DSC for each homopolyester for K determination.

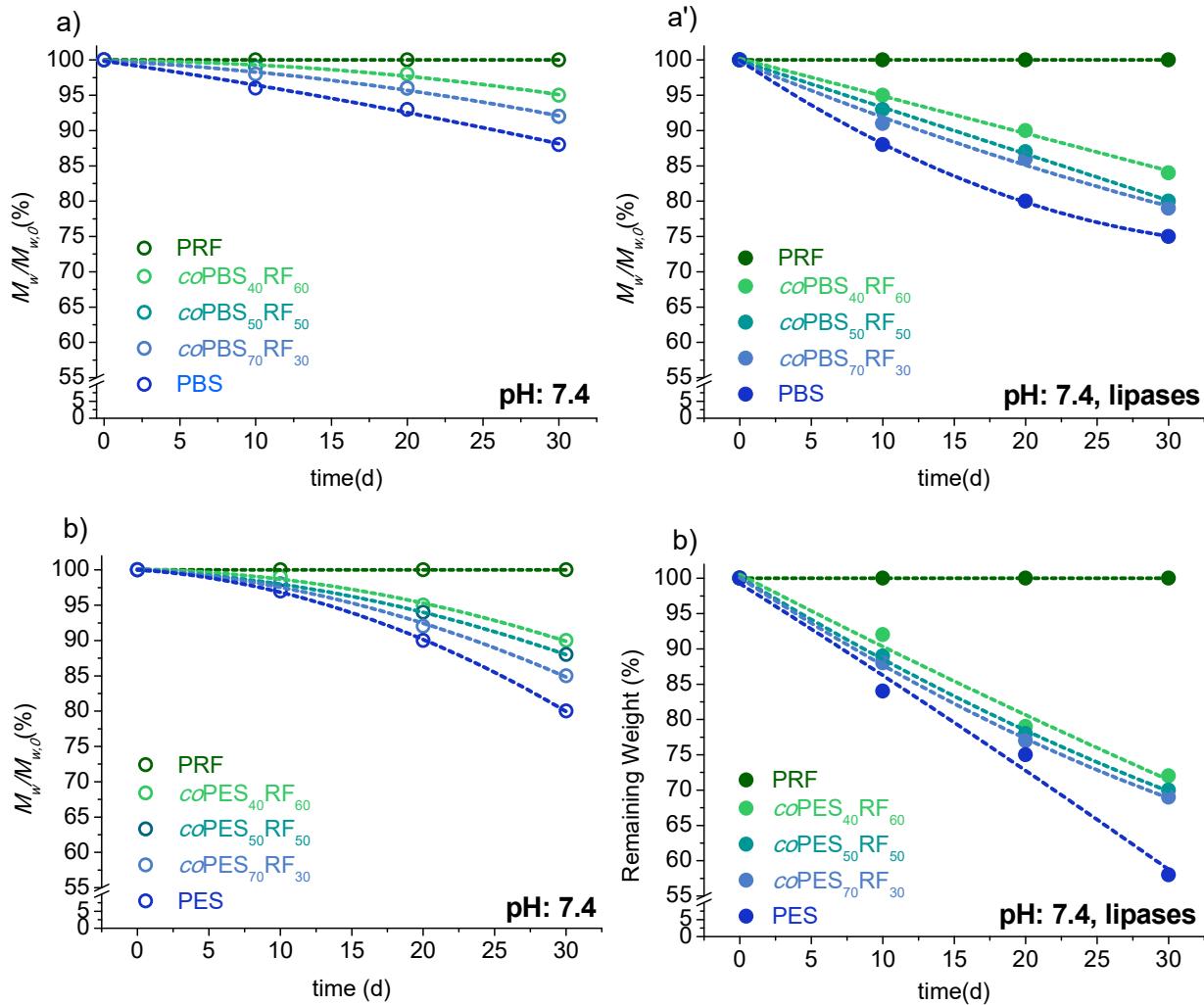


Figure S5. Molecular weight reduction of resorcinol-containing succinate-furanoate copolyesters as a function of incubation time in aqueous buffer at pH 4 and 37 °C (a and b) and under the same conditions but with lipases added to the incubation medium (a' and b').