

A Mild Method to Prepare High Molecular Weight Poly(butylene furandicarboxylate-co-glycolate) Copolyesters: Effect of Glycolate Content on Thermal, Mechanical, Barrier Properties and Biodegradability

Han Hu,^{a,b} Ruoyu Zhang,^{a*} Jinggang Wang,^a Wu Bin Ying,^a Lei Shi,^a Chenkai Yao,^a Zhengyang Kong,^a Kai Wang,^a and Jin Zhu^{a*}

^a Key Laboratory of Bio-based Polymeric Materials Technology and Application of Zhejiang Province, Ningbo Institute of Materials Technology and Engineering, Chinese Academy of Sciences, Ningbo, Zhejiang 315201, People's Republic of China

^b University of Chinese Academy of Sciences, Beijing 100049, People's Republic of China

Corresponding authors: zhangruoyu@nimte.ac.cn (Ruoyu Zhang); jzhu@nimte.ac.cn (Jin Zhu)

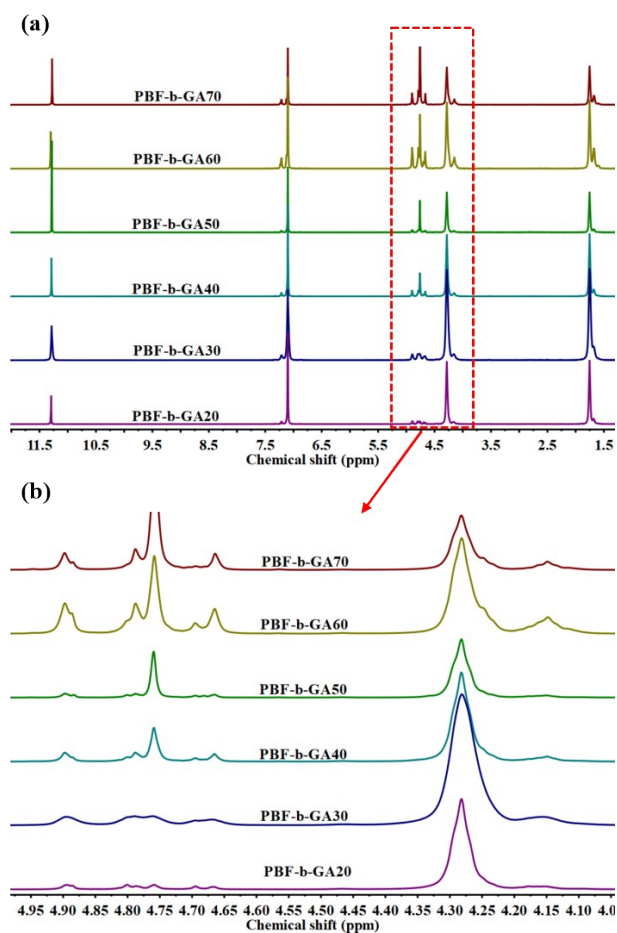


Fig. S1 (a) ^1H NMR spectra of PBF-b-GA. (b) Enlargements of chemical shifts 4.0-5.0 ppm.

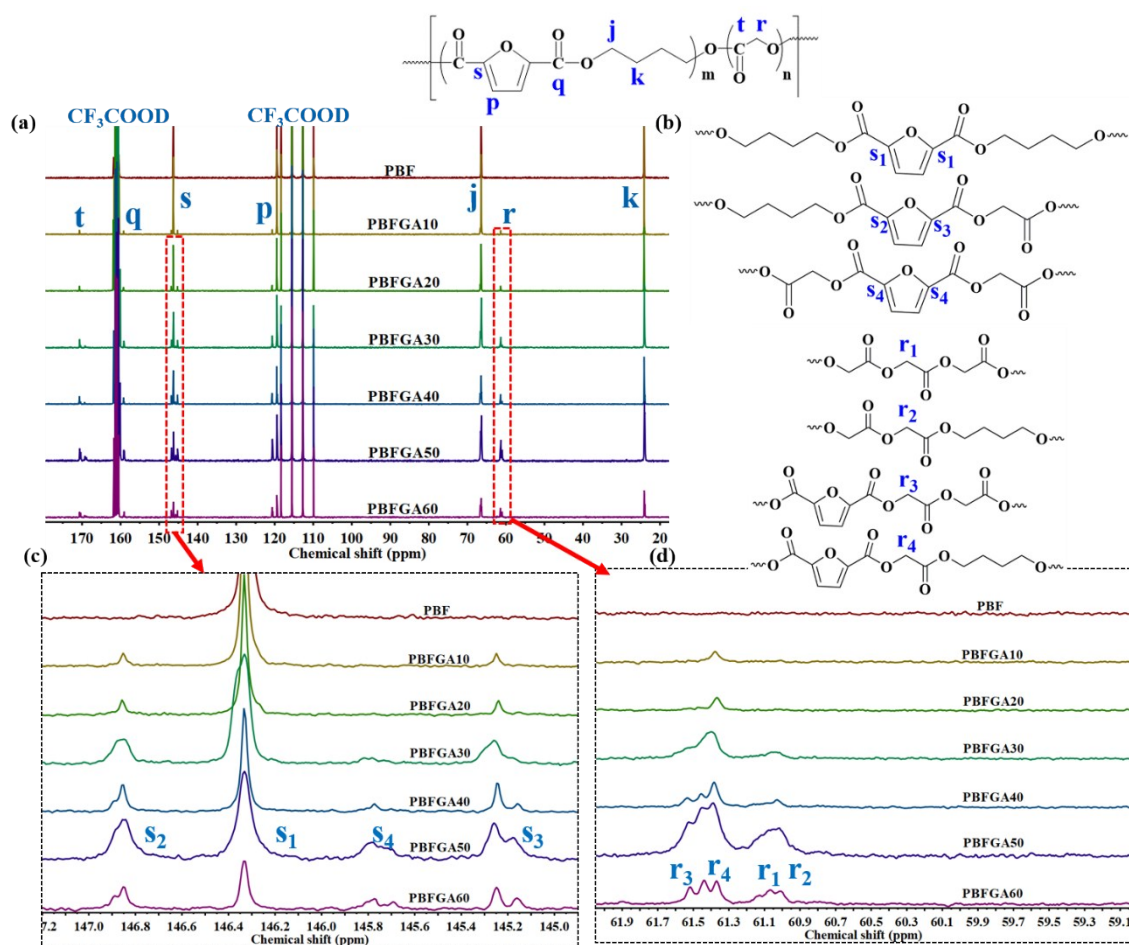


Fig. S2 (a) ^{13}C NMR spectra of PBFGA. (b) Chain structures of PBFGA. (c) Enlargements of chemical shifts s . (d) Enlargements of chemical shifts r .

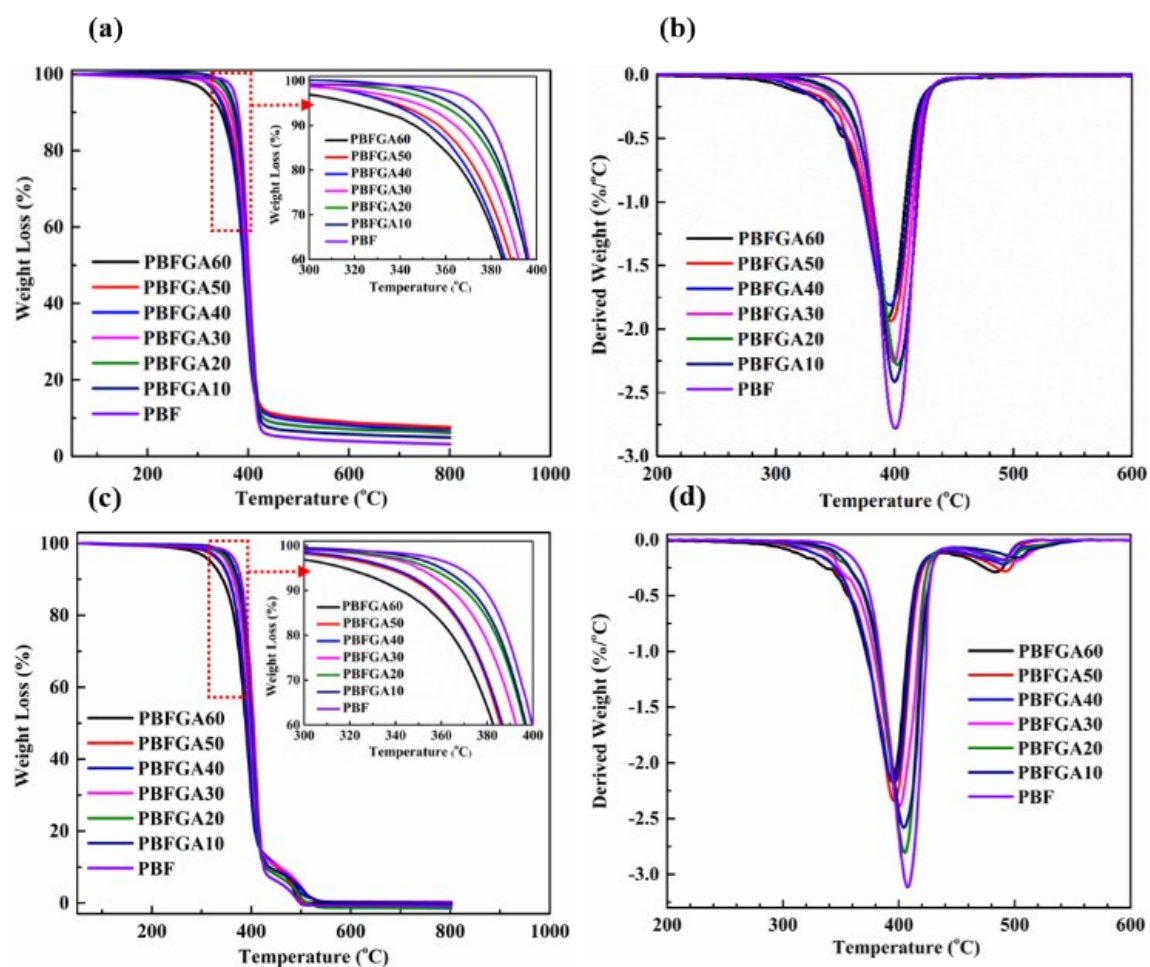


Fig. S3 TGA and DTG curves of PBFGAs under N₂ (a, b) and air (c, d).