

Supplementary material

Effect of different plasticizers on thermal, crystalline and permeability properties of Poly(3-hydroxybutyrate-co-3-hydroxyhexanoate) films

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TGA and DTG curves of the PHBH films

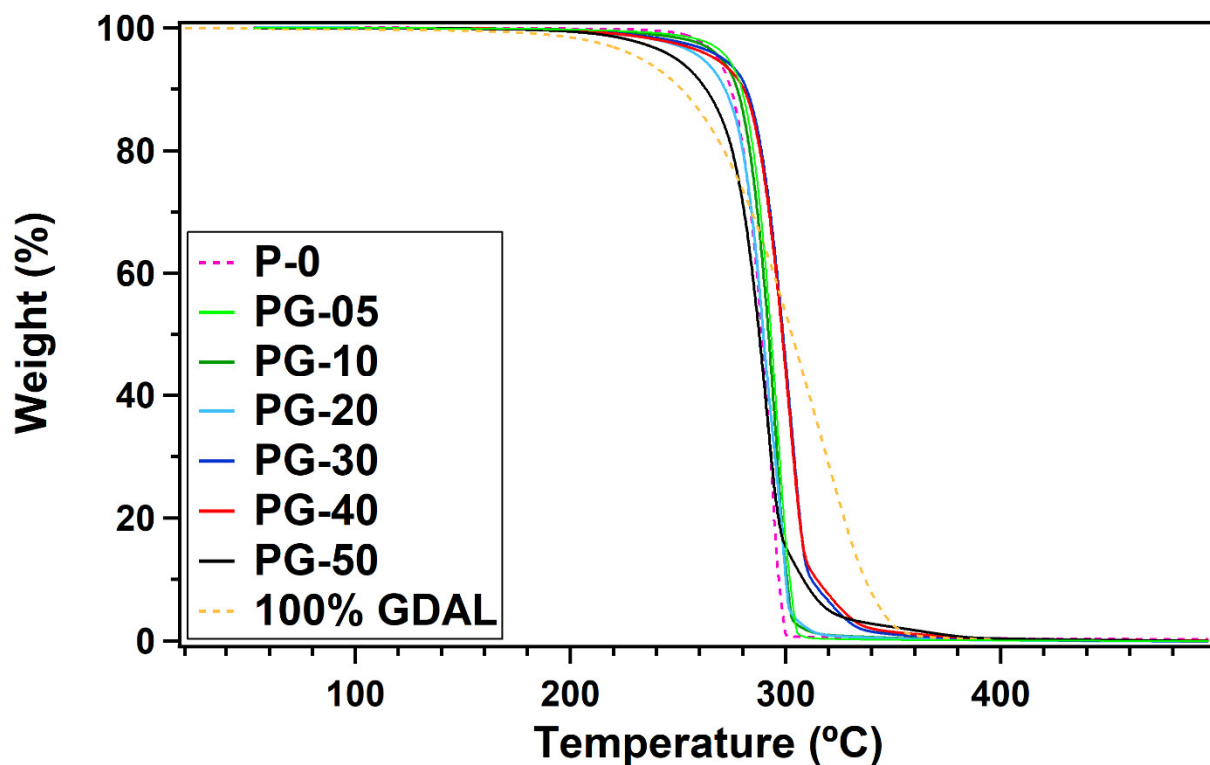


Figure S1. TGA curves of the P-0 film, GDAL plasticized films, and the GDAL plasticizer.

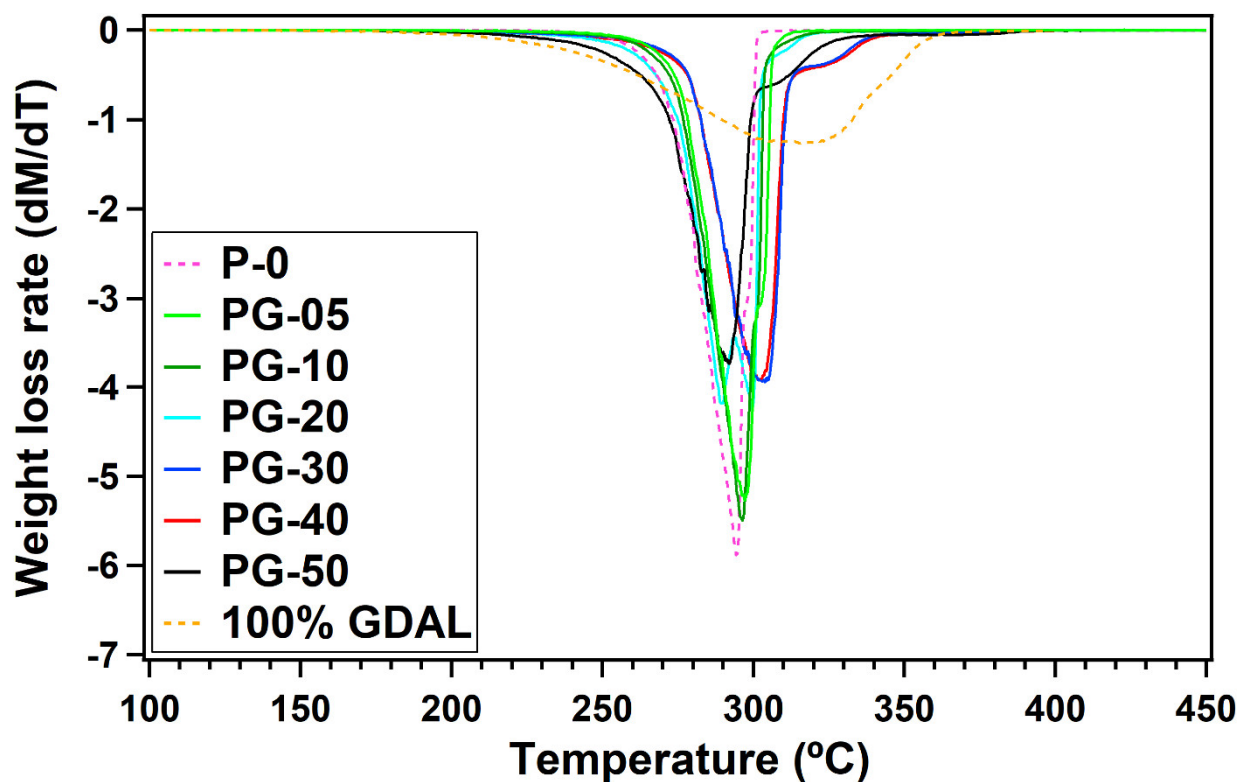


Figure S2. DTG curves of the P-0 film, GDAL plasticized films, and the GDAL plasticizer.

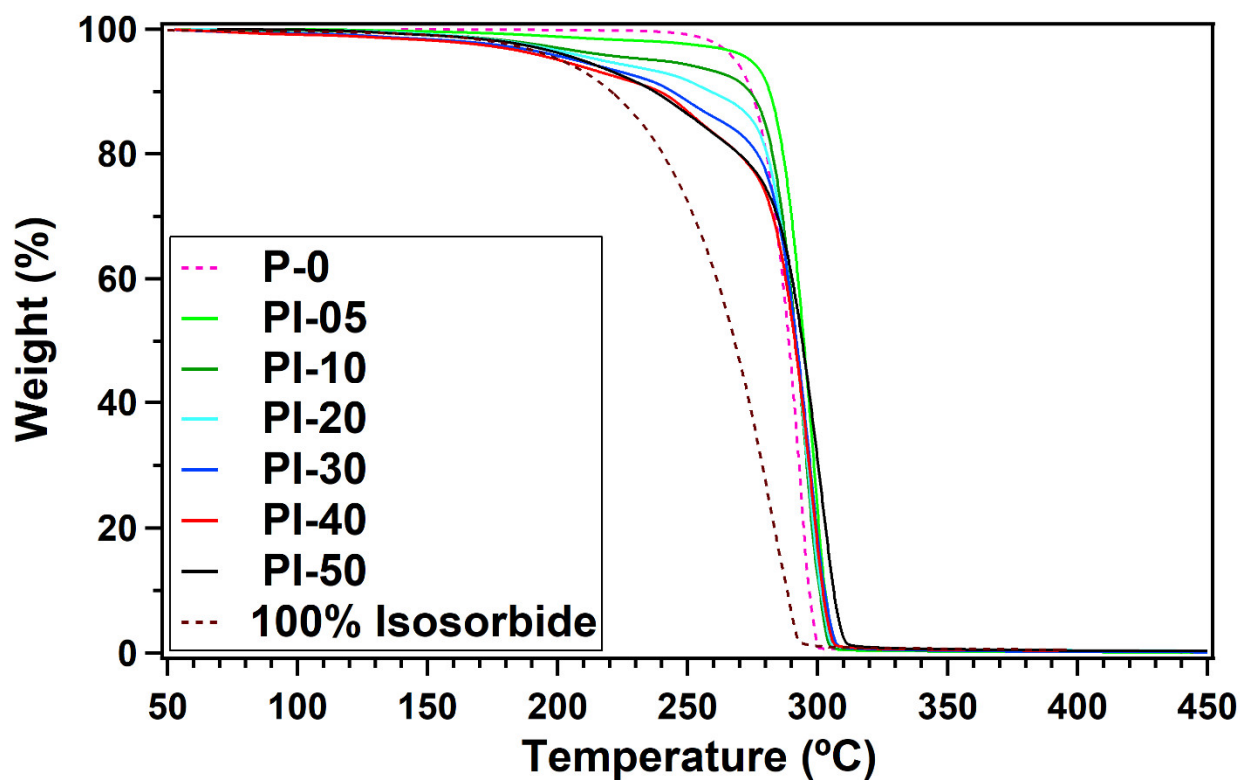


Figure S3. TGA curves of the P-0 film, isosorbide plasticized films, and the isosorbide plasticizer.

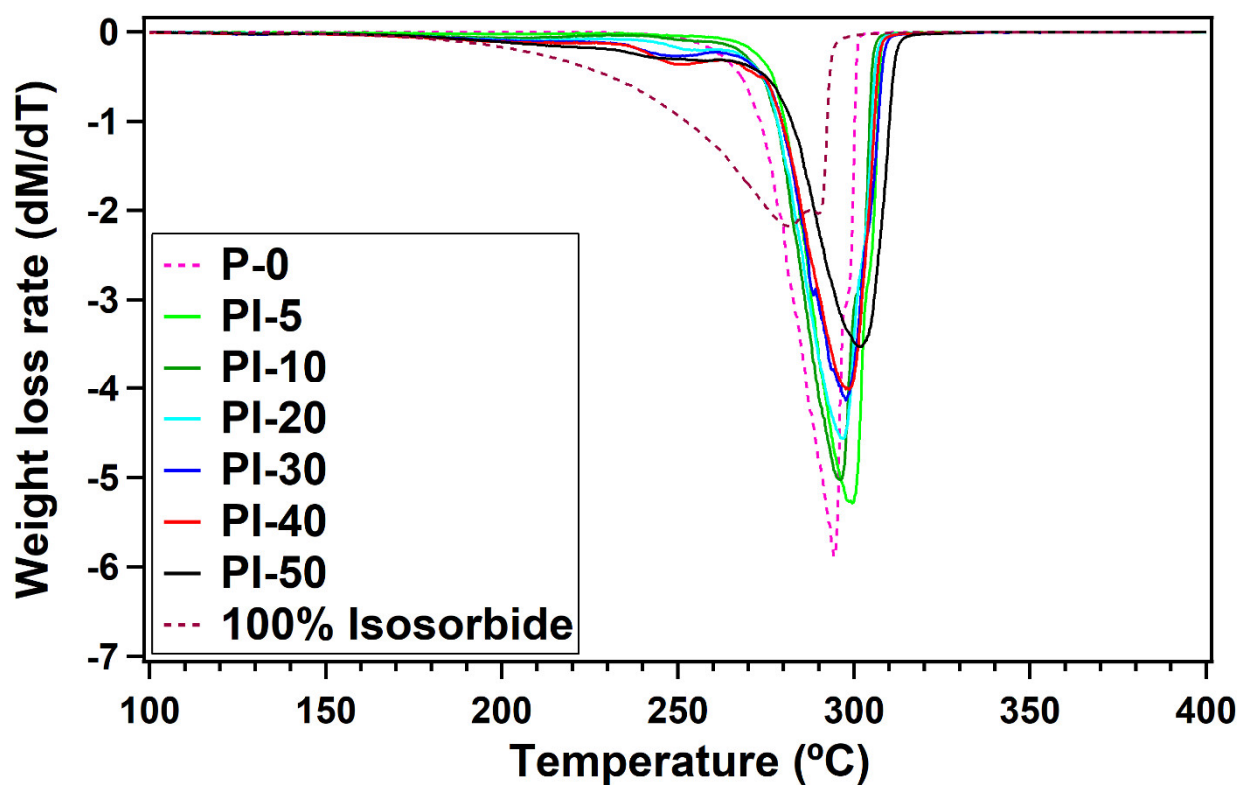


Figure S4. DTG curves of the P-0 film, isosorbide plasticized films, and the isosorbide plasticizer.

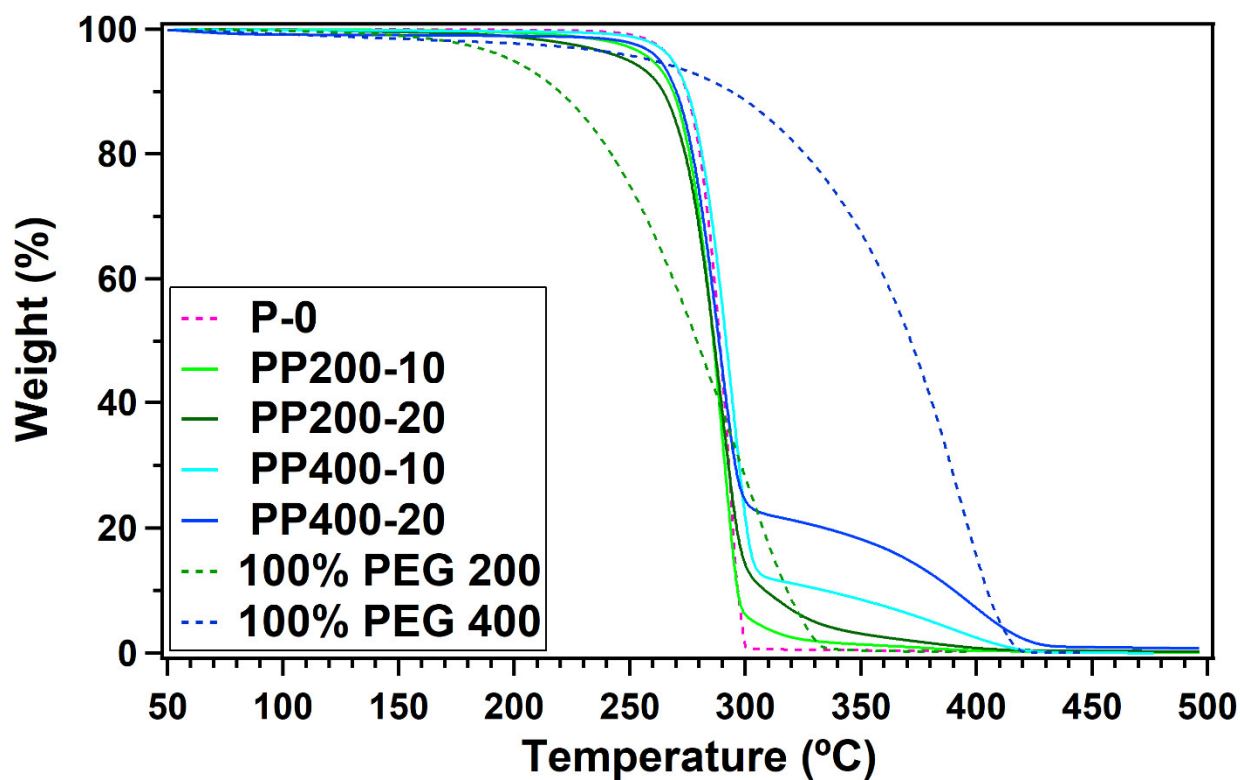


Figure S5. TGA curves of the P-0 film, films plasticized with PEG 200 and 400, and the pure PEG plasticizers.

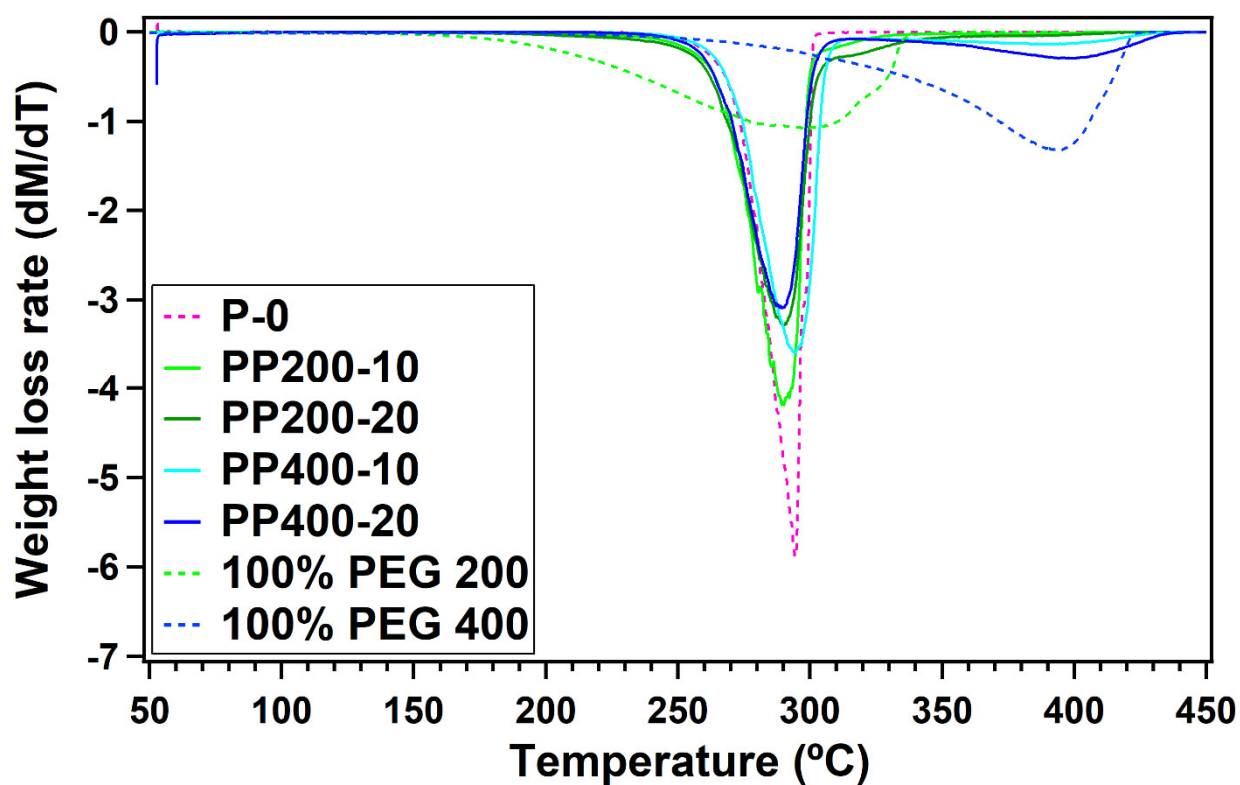


Figure S6. DTG curves of the P-0 film, films plasticized with PEG 200 and 400, and the pure PEG plasticizers.

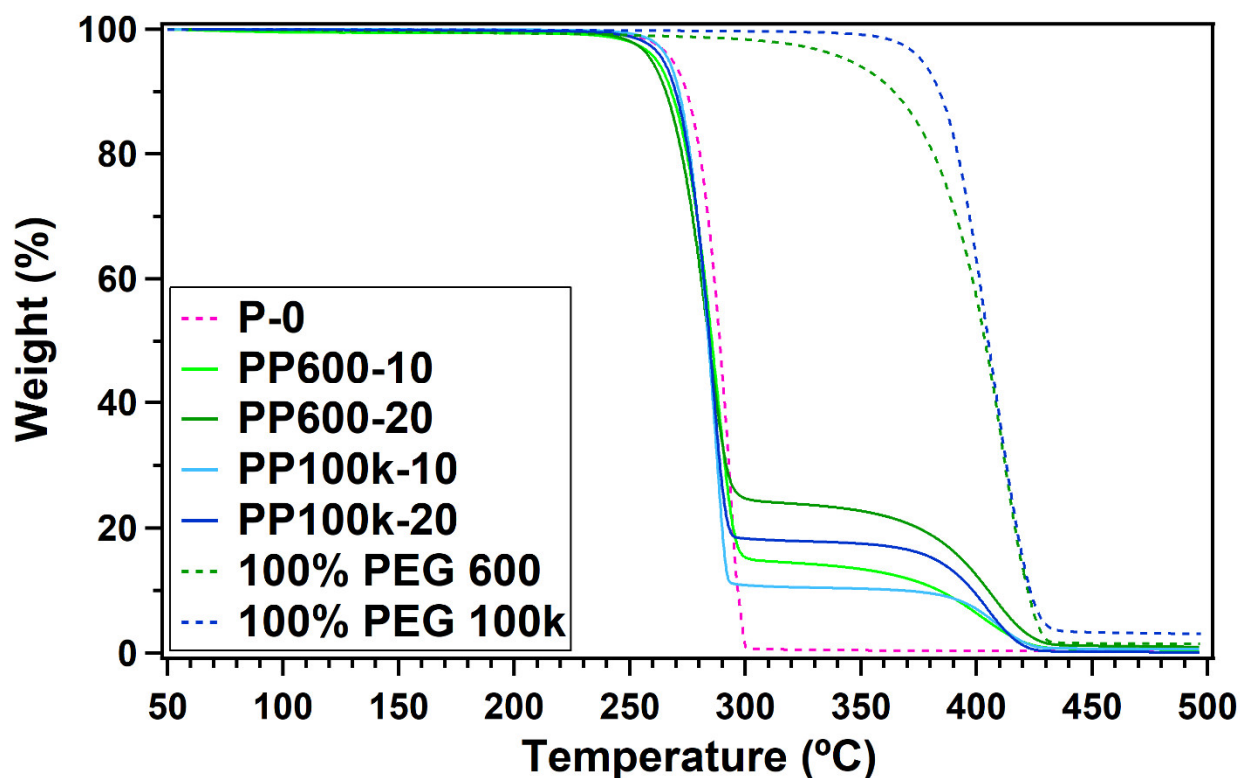


Figure S7. TGA curves of the P-0 film, films plasticized with PEG 600 and 100k, and the pure PEG plasticizers.

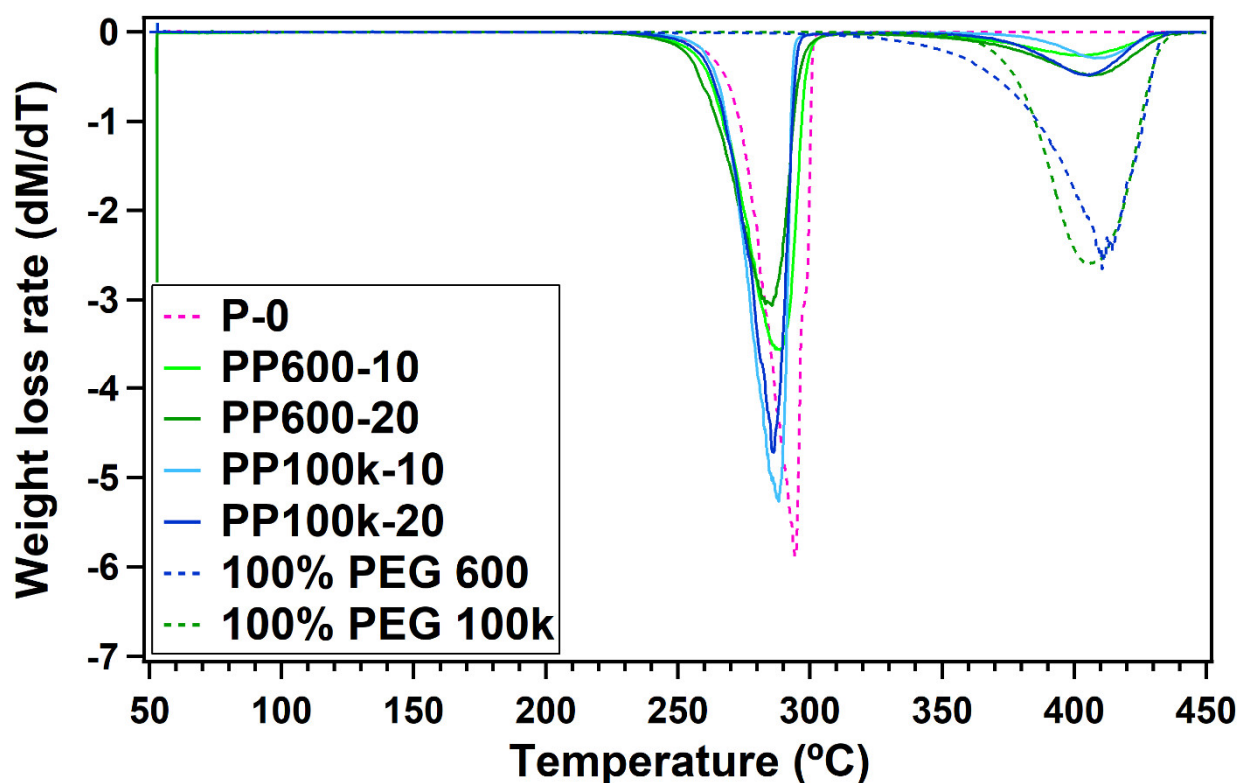


Figure S8. DTG curves of the P-0 film, films plasticized with PEG 600 and 100k, and the pure PEG plasticizers.

DSC thermograms of the PHBH films

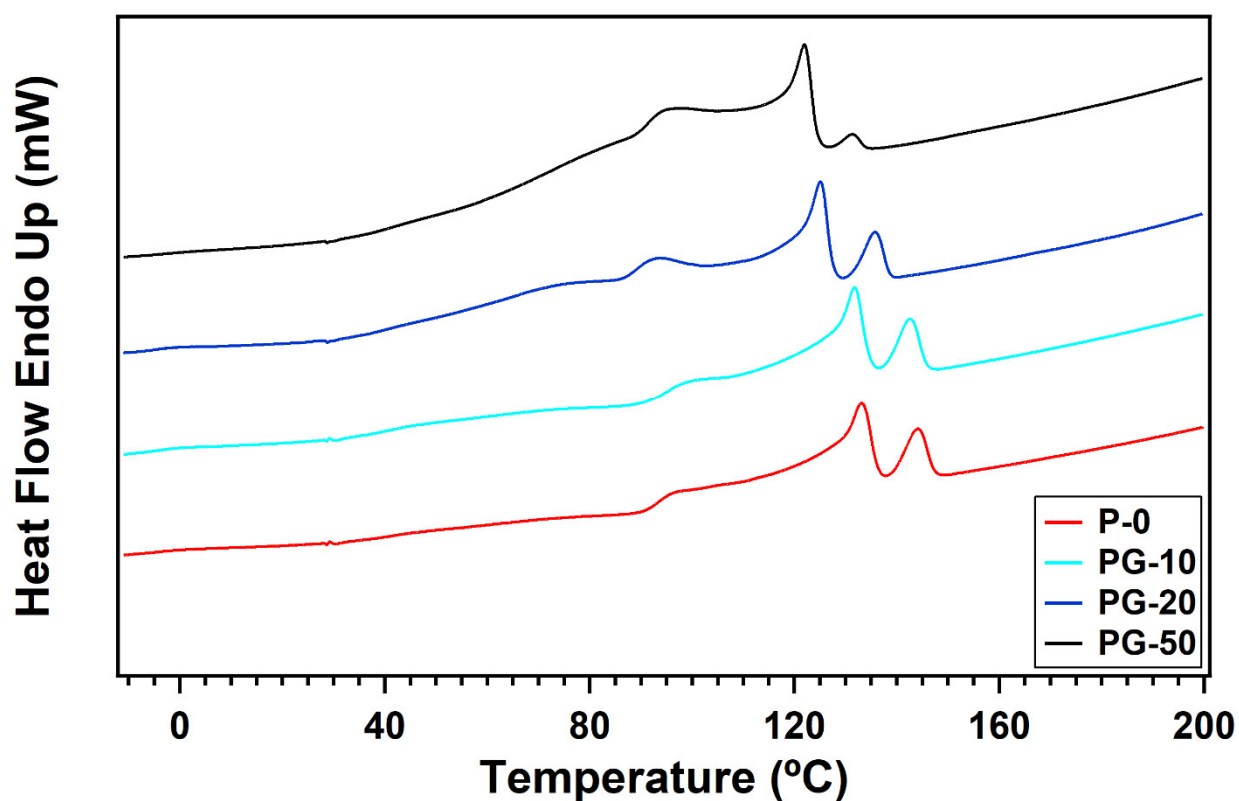


Figure S9. DSC first heating thermograms of the P-0 film and the GDAL plasticized films.

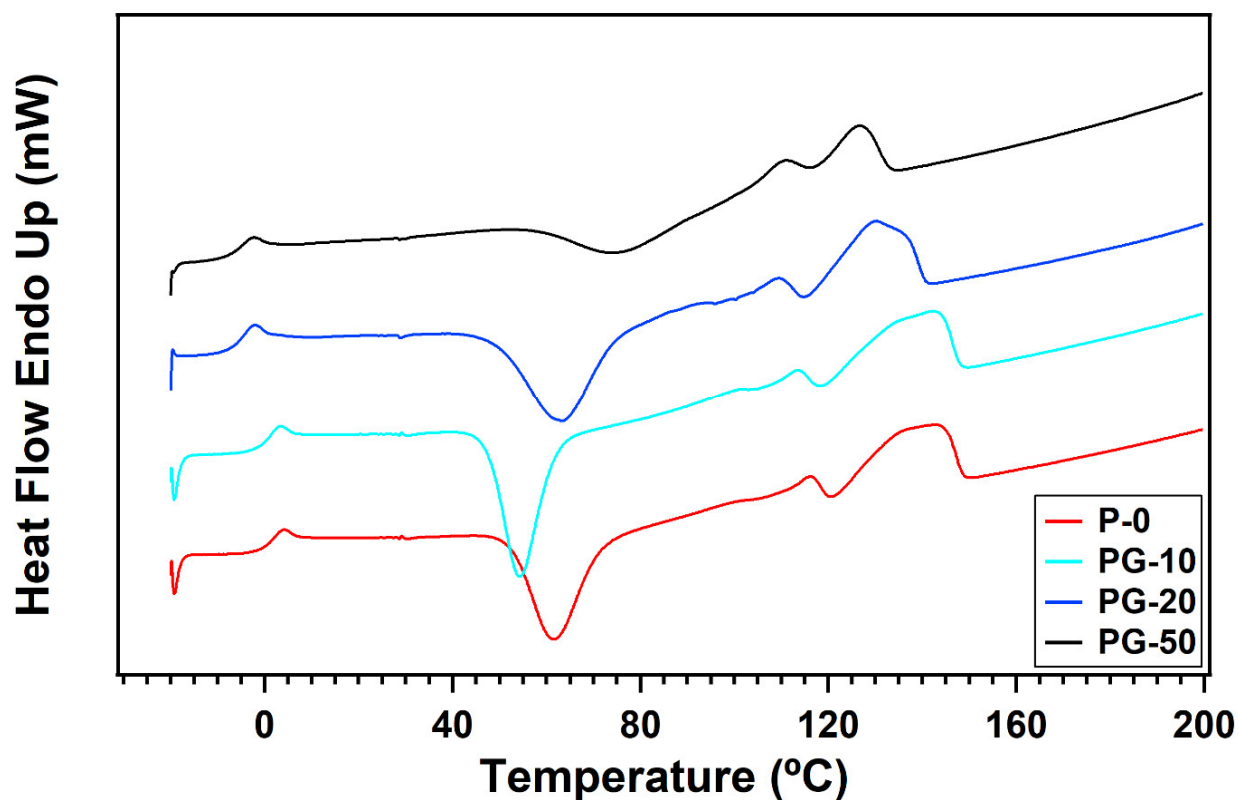


Figure S10. DSC second heating thermograms of the P-0 film and the GDAL plasticized films.

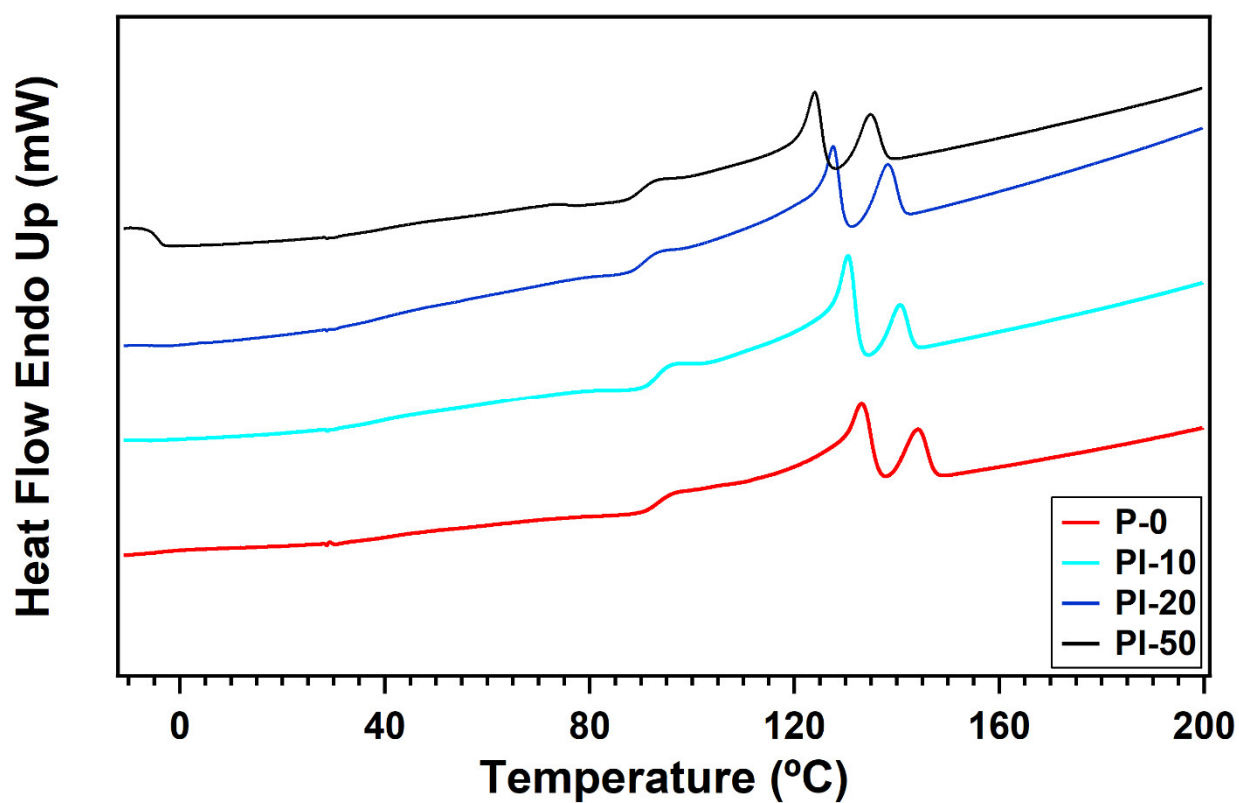


Figure S11. DSC first heating thermograms of the P-0 film and the isosorbide plasticized films.

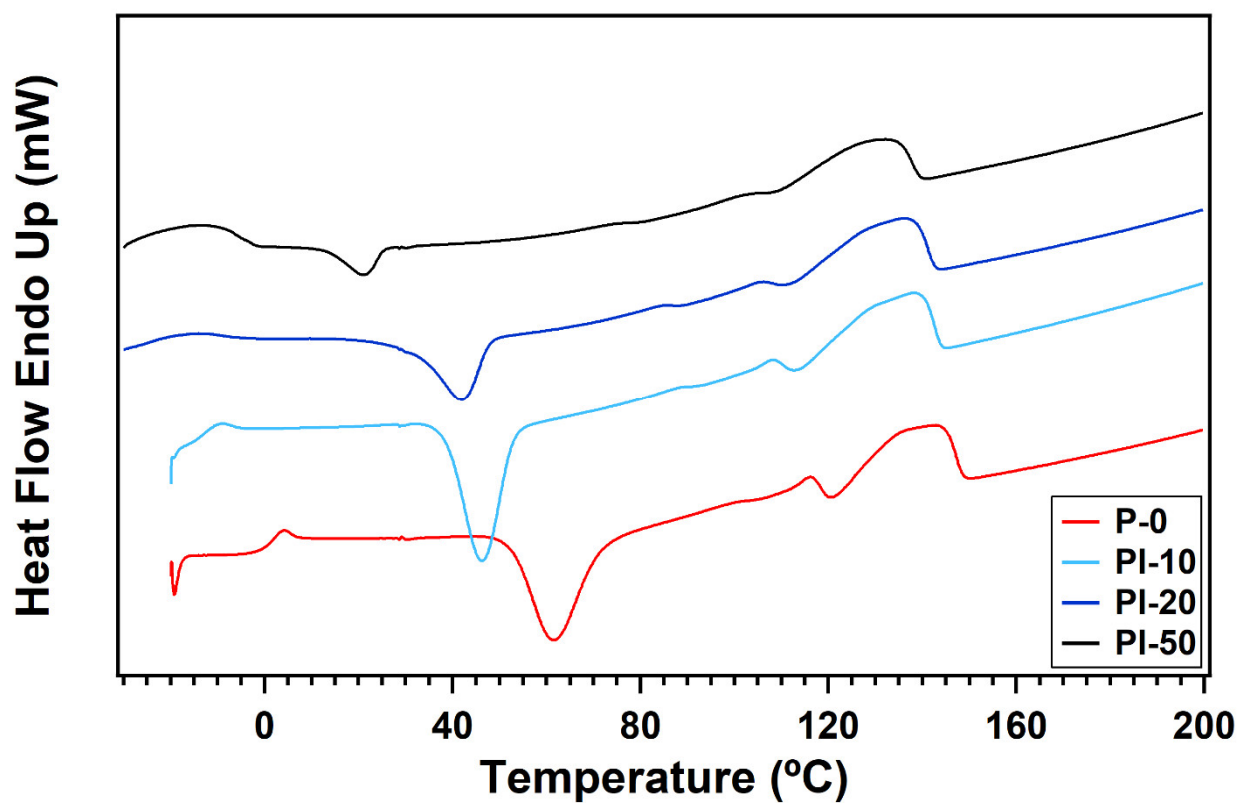


Figure S12. DSC second heating thermograms of the P-0 film and the isosorbide plasticized films.

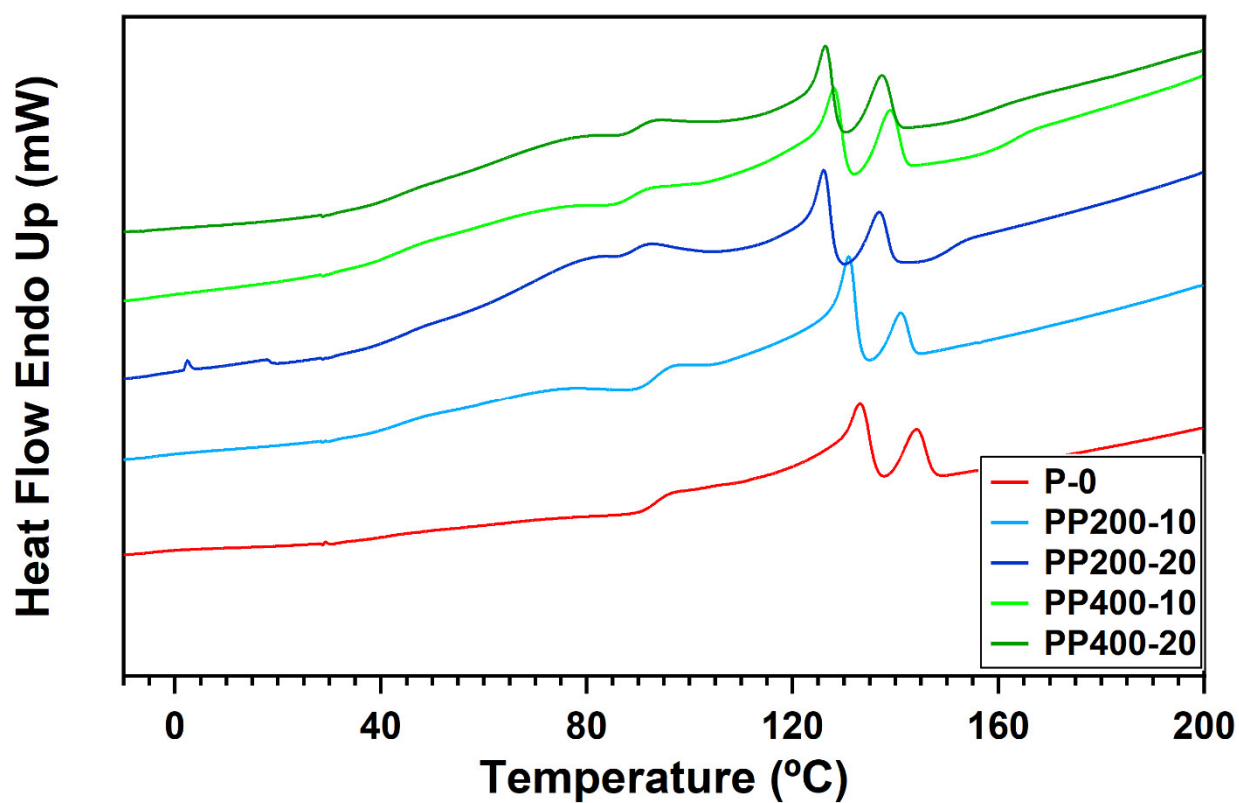


Figure S13. DSC first heating thermograms of the P-0 film and the films plasticized with PEG 200 and 400.

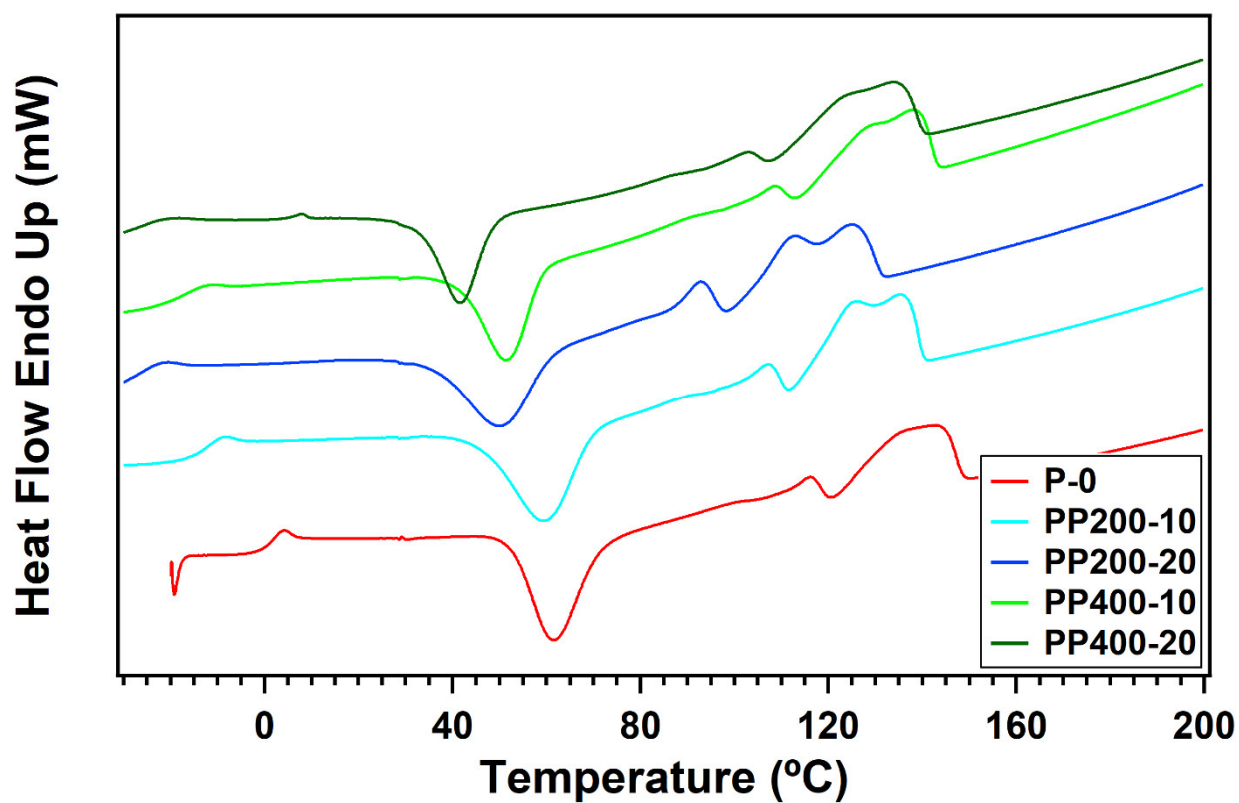


Figure S14. DSC second heating thermograms of the P-0 film and the films plasticized with PEG 200 and 400.

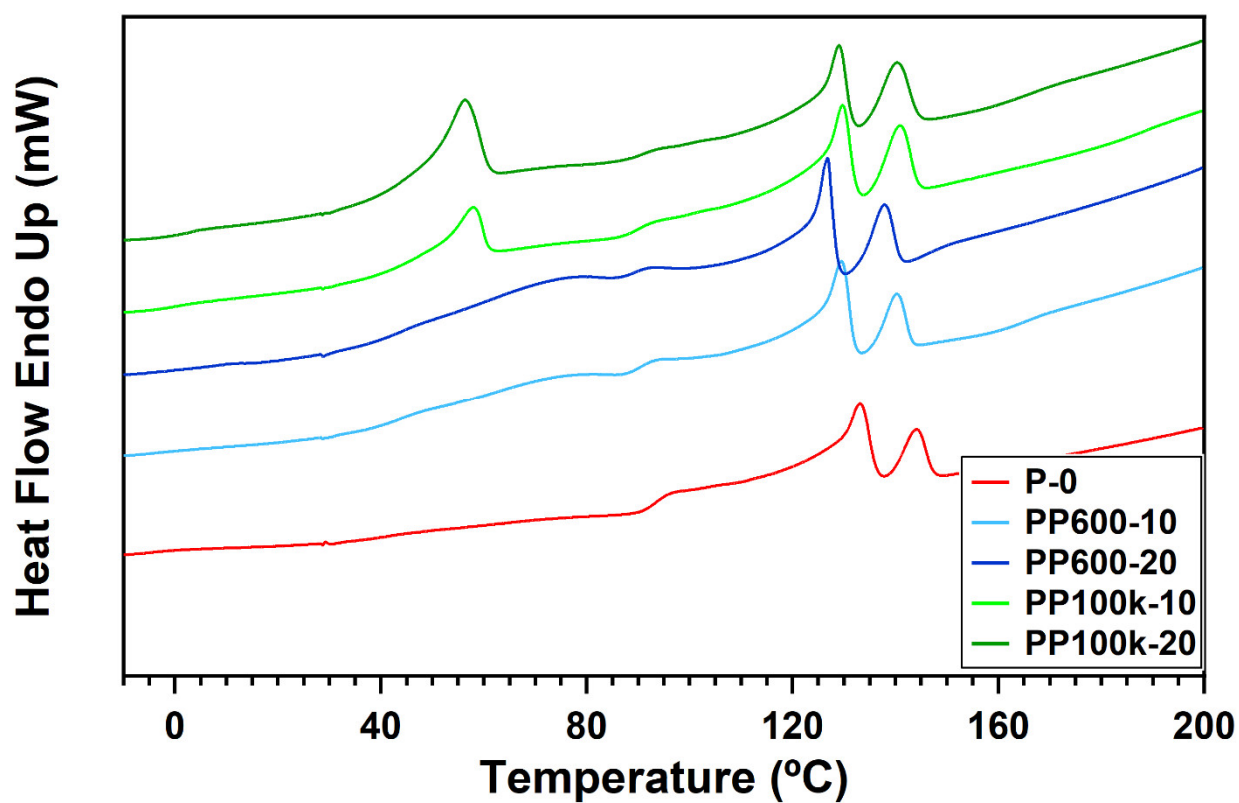


Figure S15. DSC first heating thermograms of the P-0 film and the films plasticized with PEG 600 and 100k.

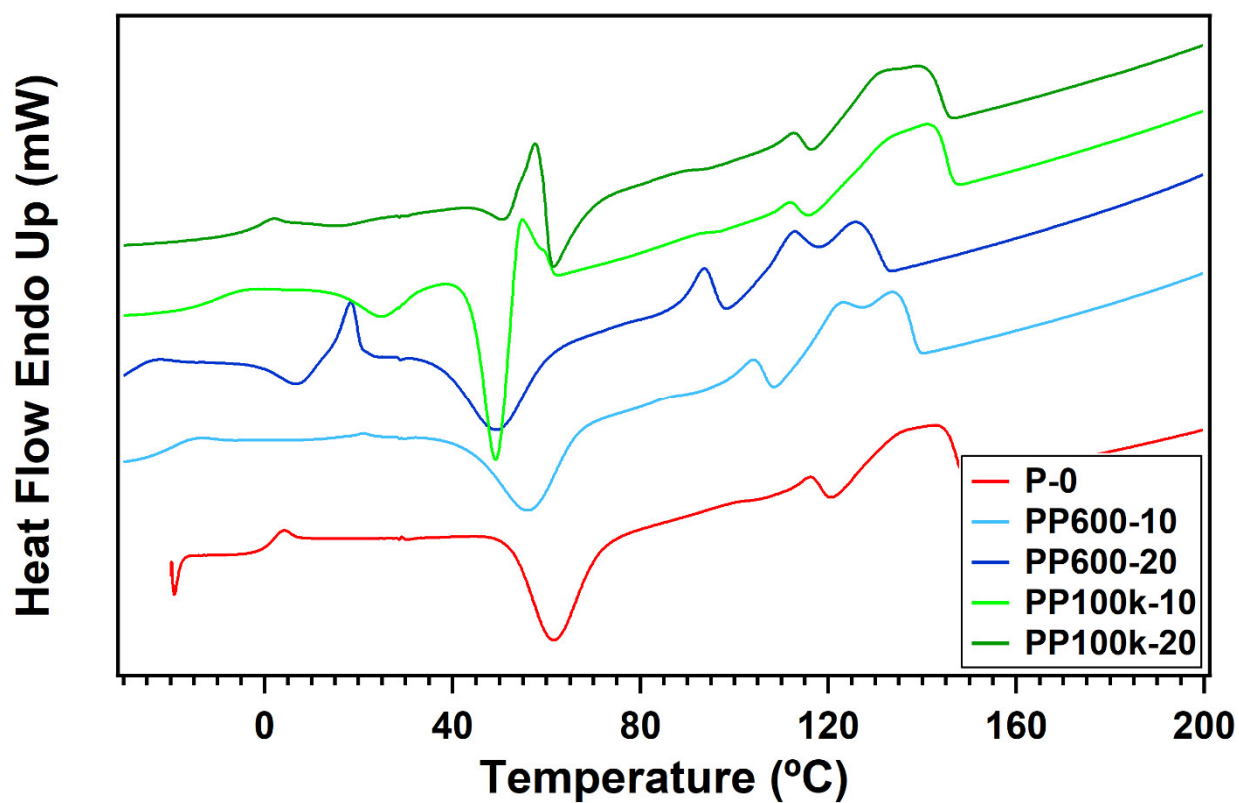


Figure S16. DSC second heating thermograms of the P-0 film and the films plasticized with PEG 600 and 100k.

XRD diffractograms of the PHBH films

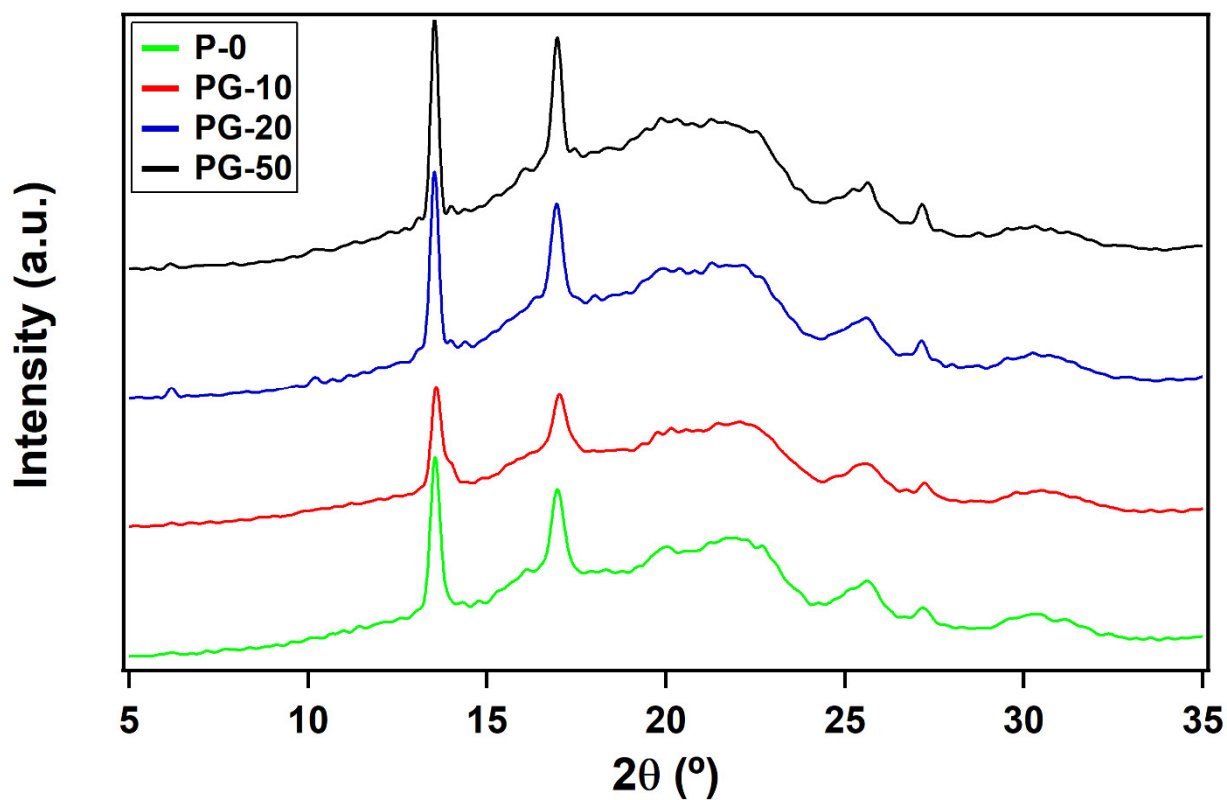


Figure S17. XRD diffractograms of the P-0 film and the GDAL plasticized films.

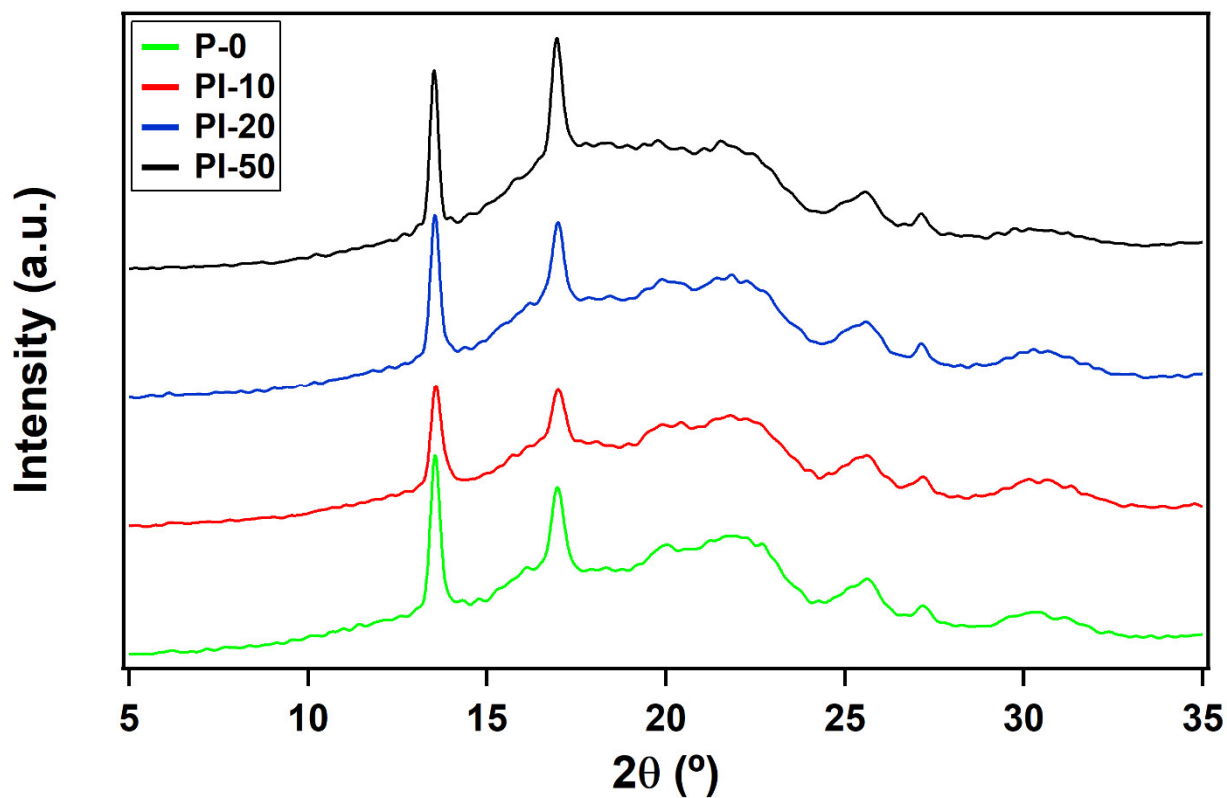


Figure S18. XRD diffractograms of the P-0 film and the isosorbide plasticized films.

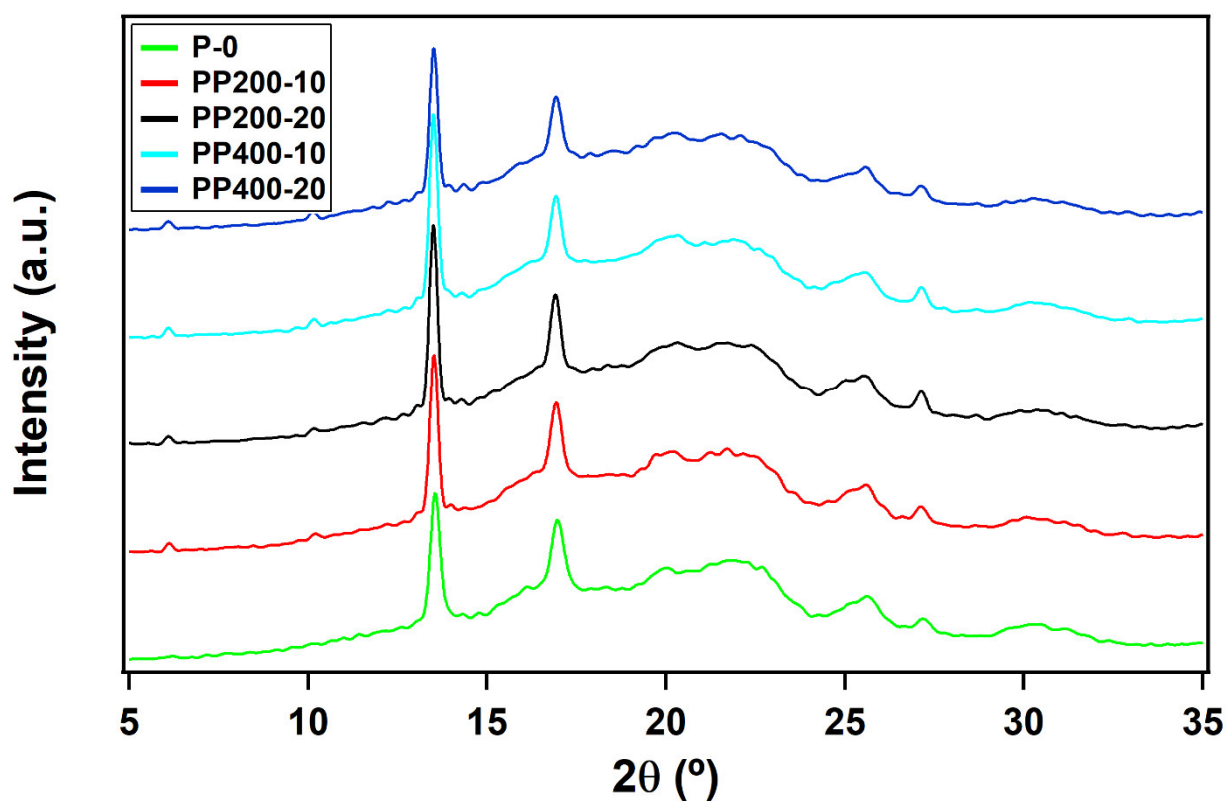


Figure S19. XRD diffractograms of the P-0 film and the films plasticized with PEG 200 and 400.

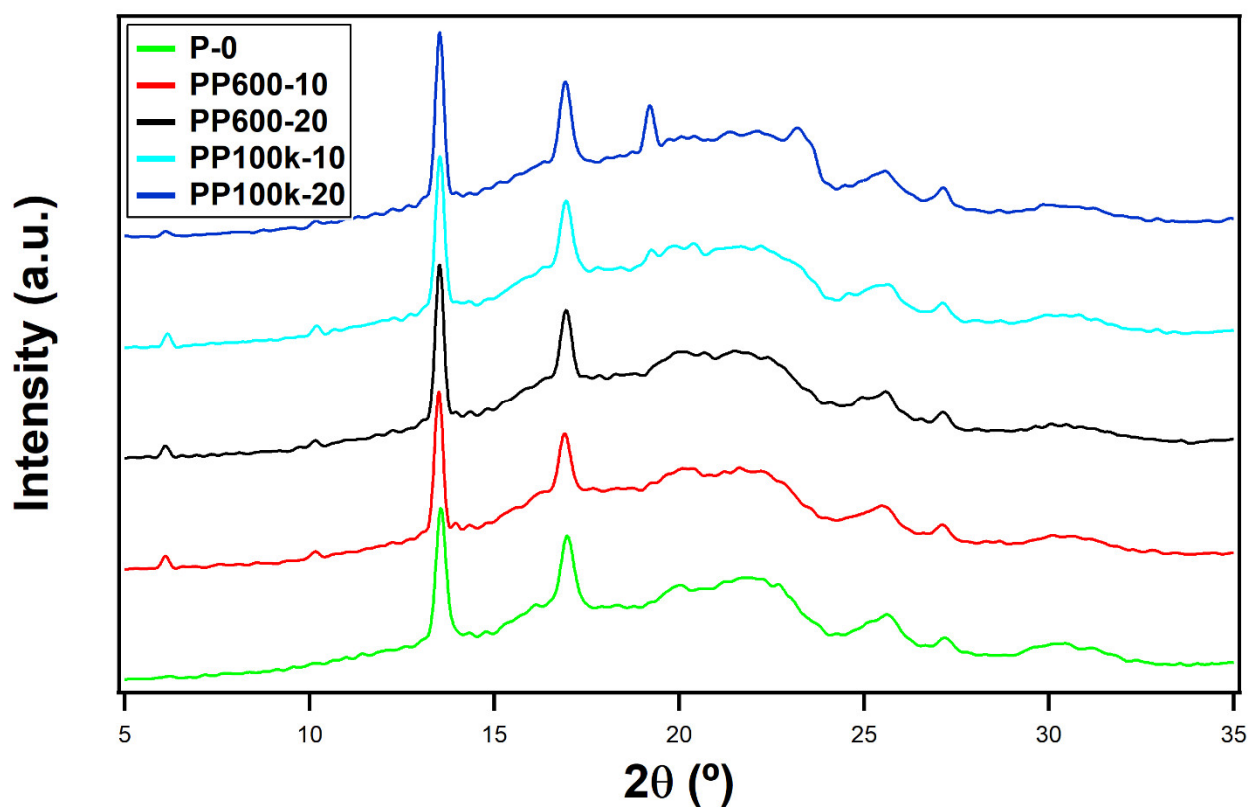


Figure S20. XRD diffractograms of the P-0 film and the films plasticized with PEG 600 and 100k.