

Supplementary Information

Fully biobased blends of poly(pentamethylene furanoate) and poly(hexamethylene furanoate) for sustainable and flexible packaging

Giulia Guidotti¹, Arianna Palumbo¹, Michelina Soccio¹, Massimo Gazzano², Elisabetta Salatelli³, Valentina Siracusa⁴, Nadia Lotti^{1,5}

¹ Department of Civil, Chemical, Environmental, and Materials Engineering, University of Bologna,
Via Terracini 28, Bologna, Italy;

² Institute for Organic Synthesis and Photoreactivity, ISOF-CNR, Via Gobetti 101, Bologna, Italy;

³ Departmet of Industrial Chemistry “Toso Montanari”, University of Bologna, Viale Risorgimento
4, Bologna, Italy;

⁴ Chemical Science Department, University of Catania, Viale A. Doria 6, Catania, Italy;

⁵ Interdepartmental Center for Industrial Agro-Food Research, CIRI-AGRO, Via Q. Bucci 336,
Cesena, Italy.

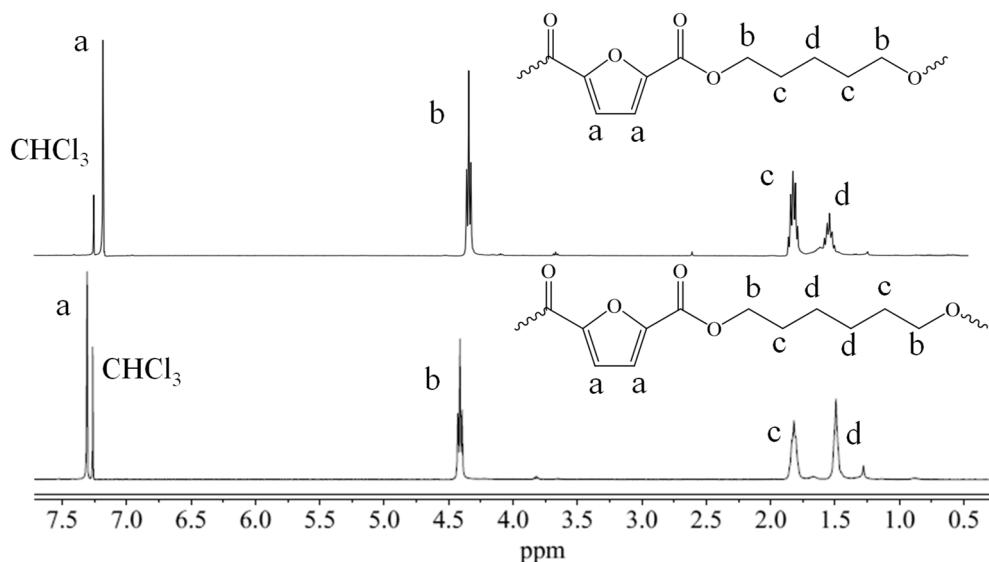


Figure S1. ¹H-NMR spectra of PPeF (top) and PHF (bottom) homopolymers, with peaks attribution.



Figure S2. ^{13}C -NMR spectra of PPeF (top) and PHF (bottom) homopolymers, with peaks attribution..

Table S1. I scan DSC data of partially degraded PHF/PPeF blends.

	PHF ₇₅ /PPeF ₂₅			PHF ₅₀ /PPeF ₅₀			PHF ₂₅ /PPeF ₇₅		
	t0	1 month	6 months	t0	1 month	6 months	t0	1 month	6 months
T _g (°C)	22	24	26	15	21	20	15	19	19
ΔC _p (J/g°C)	0.176	0.204	0.210	0.247	0.131	0.157	0.234	0.116	0.101
T _m (°C)	57 144	89 143	93 144	59 142	89 142	93 143	59 140	55 84 140	85 140
ΔH _m (J/g)	5.3 37	7.4 34	5.5 38	3.3 23	3.0 26	4.0 30	1.3 13	1.7 17 13	18 14