

Supplementary materials

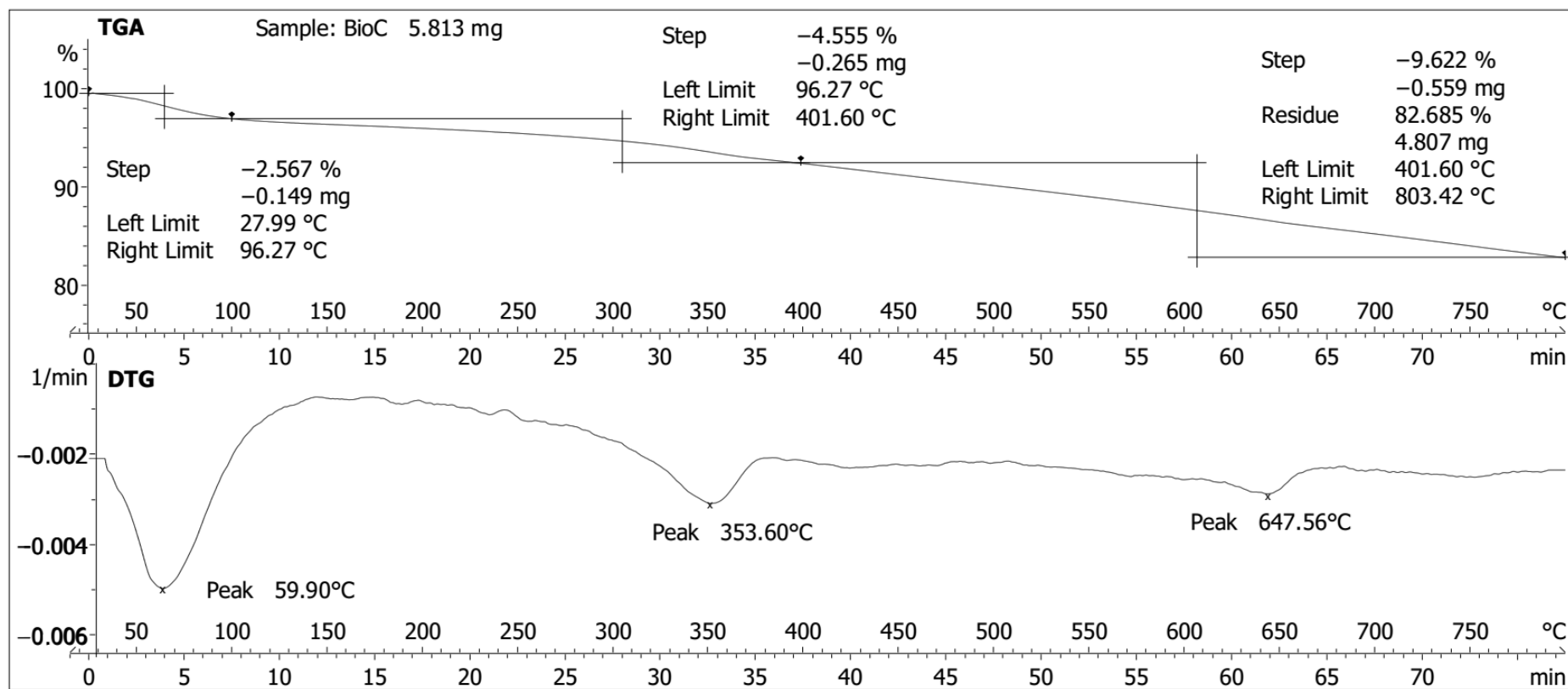


Figure S1. TGA and DTG curves of the biochar.

Table S1. Results of determination of tensile modulus and tensile strength

Specimen	Tensile modulus			Tensile strength	
	E _t			R _m	
	[MPa]			[MPa]	
	Mean value	Standard deviation		Mean value	Standard deviation
PBAT/PLA	281	16.8		11.1	0.10
PBAT/PLA BC10	377	14.3		11.9	0.07
PBAT/PLA BC15	422	7.43		12.3	0.08
PBAT/PLA BC20	457	19.7		13.1	0.03
PBAT/PLA BC30	573	21.2		13.9	0.10
PLA/P(3HB- <i>co</i> -4HB)	1230	45.8		35.6	1.41
PLA/P(3HB- <i>co</i> -4HB) BC10	1350	118		30.0	0.26
PLA/P(3HB- <i>co</i> -4HB) BC15	1270	169		28.0	1.10
PLA/P(3HB- <i>co</i> -4HB) BC20	2000	264		26.8	0.80
PLA/P(3HB- <i>co</i> -4HB) BC30	2756	110		27.1	0.50

Table S2. Results of determination of elongation at yield and elongation at break

Specimen	Elongation at yield			Elongation at break	
	ϵ_y			ϵ_b	
	[%]			[%]	
	Mean value	Standard deviation		Mean value	Standard deviation
PBAT/PLA	14.0	0.38		19.0	3.80
PBAT/PLA BC10	11.0	0.23		12.0	0.42
PBAT/PLA BC15	9.8	1.10		13.0	0.86
PBAT/PLA BC20	9.5	1.10		12.0	1.00
PBAT/PLA BC30	7.7	0.51		10.0	0.15
PLA/P(3HB- <i>co</i> -4HB)	2.3	0.08		16.0	4.70
PLA/P(3HB- <i>co</i> -4HB) BC10	2.2	0.10		6.0	2.60
PLA/P(3HB- <i>co</i> -4HB) BC15	2.0	0.04		5.8	1.00
PLA/P(3HB- <i>co</i> -4HB) BC20	1.8	0.09		6.5	2.50
PLA/P(3HB- <i>co</i> -4HB) BC30	1.5	0.09		5.6	1.40

Table S3. Results of determination of Charpy impact strength of notched specimens

Specimen	Charpy impact strength	
	a_{cN}	
	$[kJ/m^2]$	
	Mean value	Standard deviation
PBAT/PLA	9.13	0.53
PBAT/PLA BC10	8.64	0.67
PBAT/PLA BC15	6.59	0.30
PBAT/PLA BC20	7.12	2.09
PBAT/PLA BC30	6.36	0.78
PLA/P(3HB-co-4HB)	4.47	1.19
PLA/P(3HB-co-4HB) BC10	2.84	0.14
PLA/P(3HB-co-4HB) BC15	2.48	0.45
PLA/P(3HB-co-4HB) BC20	2.25	0.28
PLA/P(3HB-co-4HB) BC30	1.61	0.22