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Samples	$M_{\rm n}({\rm g/mol})$	$M_{\rm w}({\rm g/mol})$	$M_{ m w}/M_{ m n}$
PLA	88137	112621	1.27
b-PLAs 1	95012	127890	1.34
b-PLAs 2	98844	132450	1.34
b-PLAs 3	108479	147531	1.36
b-PLAs 4	115253	163058	1.37
b-PLAs 5	117810	168478	1.39

Table S1. The data of molecular weight and PDI of samples.



Fig. S1. Dynamic mechanical spectra: (a) storage modulus (G') and (b) viscous modulus (G'').



Fig. S2 DSC curves of isothermal melt crystallization for (a) linear PLA; (b) b-PLAs 1;

(c) b-PLAs 2; (d) b-PLAs 3; (e) b-PLAs 4; (f) b-PLAs 5.



Fig. S3 Relative crystallinity (X_t) variation as a function of isothermal crystallization time for (a) linear PLA; (b) b-PLAs 1; (c) b-PLAs 2; (d) b-PLAs 3; (e) b-PLAs 4; (f) b-PLAs 5.

Table S2 DSC parameters of PLA and b-PLAs				
Samples	T _m (°C)	riangle H(J/g)	X _c (%)	
PLA	157.2	16.9	18.1	
m-PLA 1	156.7	18.1	19.3	
m-PLA 2	156.2	23.1	24.6	
m-PLA 3	155.6	25.9	27.7	
m-PLA 4	155.7	27.5	29.4	
m-PLA 5	155.5	29.2	31.2	