Electronic Supplementary Material (ESI) for Materials Advances.

Supplementary Information

Facile Control of Surface Property and Hydrolytic Degradation of Poly(L-lactide) Materials by Coating Poly(L-lactide)-Based Triblock Copolymers with Hydrophilic or Hydrophobic Block

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S1. GPC charts of PB diol, PLLA-PB-PLLA, PEG, and PLLA-PEG-PLLA (Figure S1)

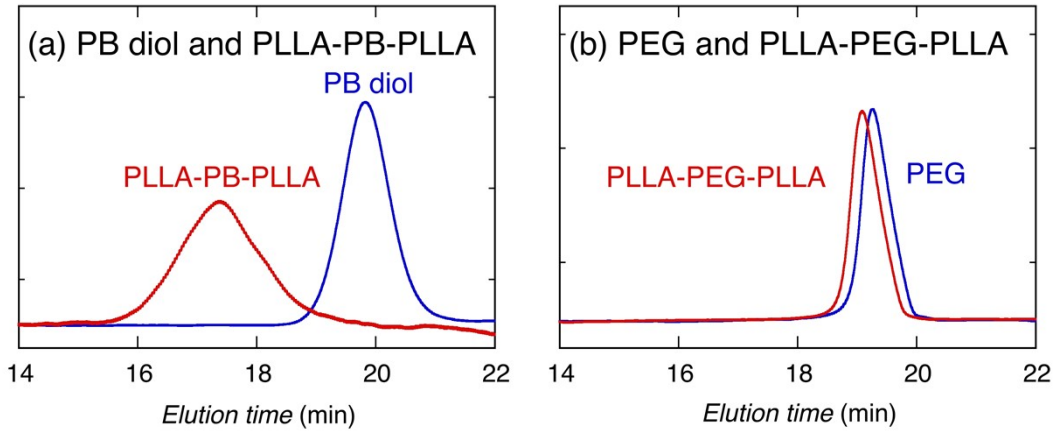

Figure S1. GPC charts of PB diol, PLLA-PB-PLLA (a) and PEG, PLLA-PEG-PLLA (b).

S2. DSC thermograms of PLLA films before and after coating (Figure S2)

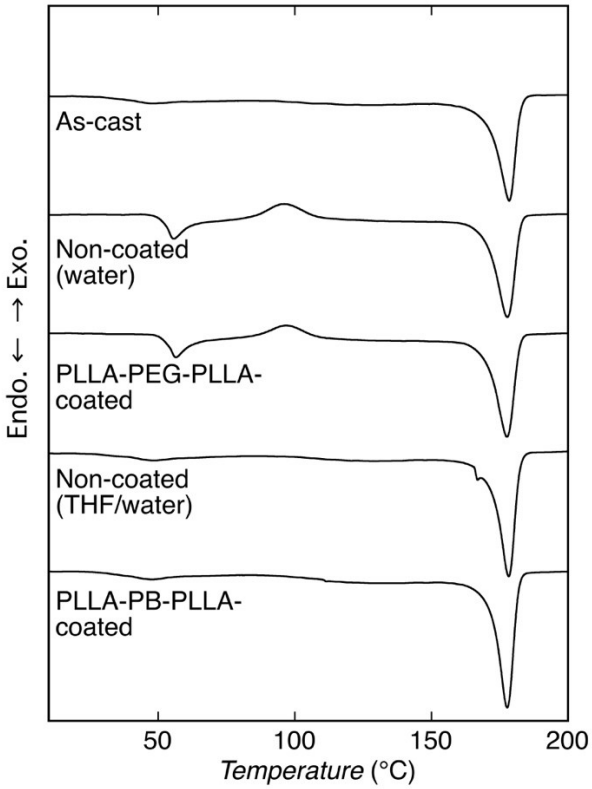

Figure S2. DSC thermograms of PLLA films before and after coating.

S3. Thermal properties of PLLA films before and after coating (Table S1)

Table S1. Thermal properties of PLLA films before and after coating.

Treatment	T_{cc} [a] (°C)	T_m [a] (°C)	ΔH_{cc} [b] (J g^{-1})	ΔH_m [b] (J g^{-1})	ΔH(tot) [c] (J g^{-1})
As-cast		178.5		30.5	30.5
Non-coated (water)	96.2	177.8	-8.5	38.0	29.5
PLLA-PEG-PLLA-coated	96.7	177.7	-7.4	38.1	30.7
Non-coated (THF/water)	135.4	178.3		32.6	32.6
PLLA-PB-PLLA-coated		177.7		32.9	32.9

[a] T_{cc} and T_m are cold crystallization and melting temperatures, respectively.
[b] ΔH_{cc} and ΔH_m cold crystallization and melting enthalpies, respectively.
[c] ΔH(tot) = ΔH_{cc} + ΔH_m.