

Preparation and properties of non-leaching antimicrobial LLDPE films

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Supporting Information

Table S1. The antimicrobial properties of ATPS within different shaking time intervals

(unit: %)

Entries	15 s	30 s	1 min	3 min	5 min
ATPS	>99.99	>99.99	>99.99	>99.99	>99.99

Table S2. DSC melting results of LLDPE/ATPS films

Entries	T_{on} (°C)	T_f (°C)	ΔT (°C)	T_m^{p1} (°C)	T_m^{p2} (°C)	ΔH_m (J/g)	X_c (%)
LLDPE	86.1	127.9	41.8	112.6	123.6	113.6	38.8
L3	87.1	128.4	41.2	112.9	123.9	106.5	36.3
L3M	86.6	127.6	41.0	112.1	123.3	106.2	36.2
L4M	87.1	127.9	40.8	112.5	123.6	105.3	35.9
L5M	86.9	128.4	41.5	112.7	123.5	105.9	36.1
L6	86.9	128.4	41.5	113.0	123.6	100.1	34.2
L6M	86.4	128.4	41.9	112.7	123.8	99.8	34.1
L7M	86.2	128.0	41.8	112.7	123.6	90.2	30.8

T_{on} : onset melting temperature; T_f : final melting temperature; $\Delta T = T_f - T_{on}$; T_m^{p1} : the first peak melting temperature; T_m^{p2} : the second peak melting temperature; ΔH_m : enthalpy of fusion; X_c : crystallinity.