Supplementary Information

Rigid bio-foam plastics with intrinsic flame retardancy derived from soybean oil

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Fig. S1 Change of acid number with reaction time during FRC-6-MA synthesis (90 °C, without catalyst).

Foams	$T1_{onset}$	$T1_{max}$	T2 _{onset}	$T2_{max}$	T _{end}
	(°C)	(°C)	(°C)	(°C)	(°C)
AESO/St = 70/30	_	_	329	387	431
FR-AESO/St = 70/30	175	226	370	430	470
DOPOMA-AESO/St =	168	224	364	424	464
70/30					

Table S1 Thermal stability of AESO/St, FR-AESO/St and DOPOMA-AESO/St foams

T1_{onset}: Onset temperature of the first stage of weight loss.

T1_{max}: Temperature corresponding to the maximum rate of weight loss at the first stage of pyrolysis.

T2_{onset}: Onset temperature of the second stage of weight loss.

 $T2_{max}$: Temperature corresponding to the maximum rate of weight loss at the second stage of pyrolysis.

T_{end}: Temperature at which pyrolysis is completed.