

Supplementary Materials

Effectiveness of Esterification Catalysts in the Synthesis of Poly(ethylene vanillate)

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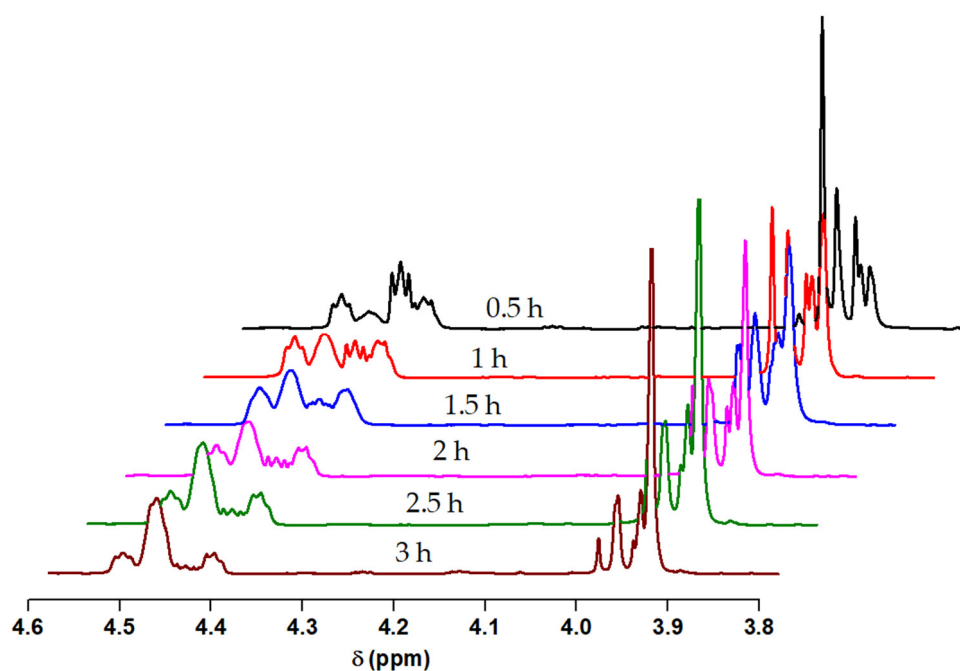


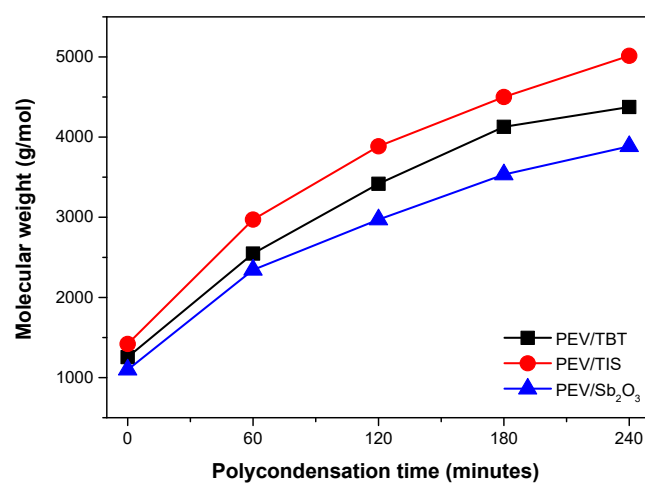
Figure S1. ¹H NMR spectra of the crude reaction mixture of the esterification performed at 200 °C, in the presence of TIS.

Table S1. Conversions obtained/observed in the presence of TBT, TIS and Sb_2O_3 catalysts.

PEV/TBT		
Time (min)	Conversion by Titration (%)	Conversion by NMR (%)
0	0	0
30	33.8	35.4
60	53.4	55.4
90	60.1	61.5
120	66	67.9
150	74.1	75.4
180	80.3	81

PEV/TIS		
Time (min)	Conversion by Titration (%)	Conversion by NMR (%)
0	0	0
30	36.1	40.1
60	57.6	59.5
90	62.4	64.2
120	66.8	69.3
150	73.9	75.2
180	82.6	84.7

PEV/ Sb_2O_3		
Time (min)	Conversion by Titration (%)	Conversion by NMR (%)
0	0	0
30	26.1	28.1
60	57.4	43.2
90	50.4	52.6
120	56.8	58.2
150	63.9	66.1
180	71.6	73.1

**Figure S2.** Evaluation of number average molecular weight at different time intervals during the polycondensation step.

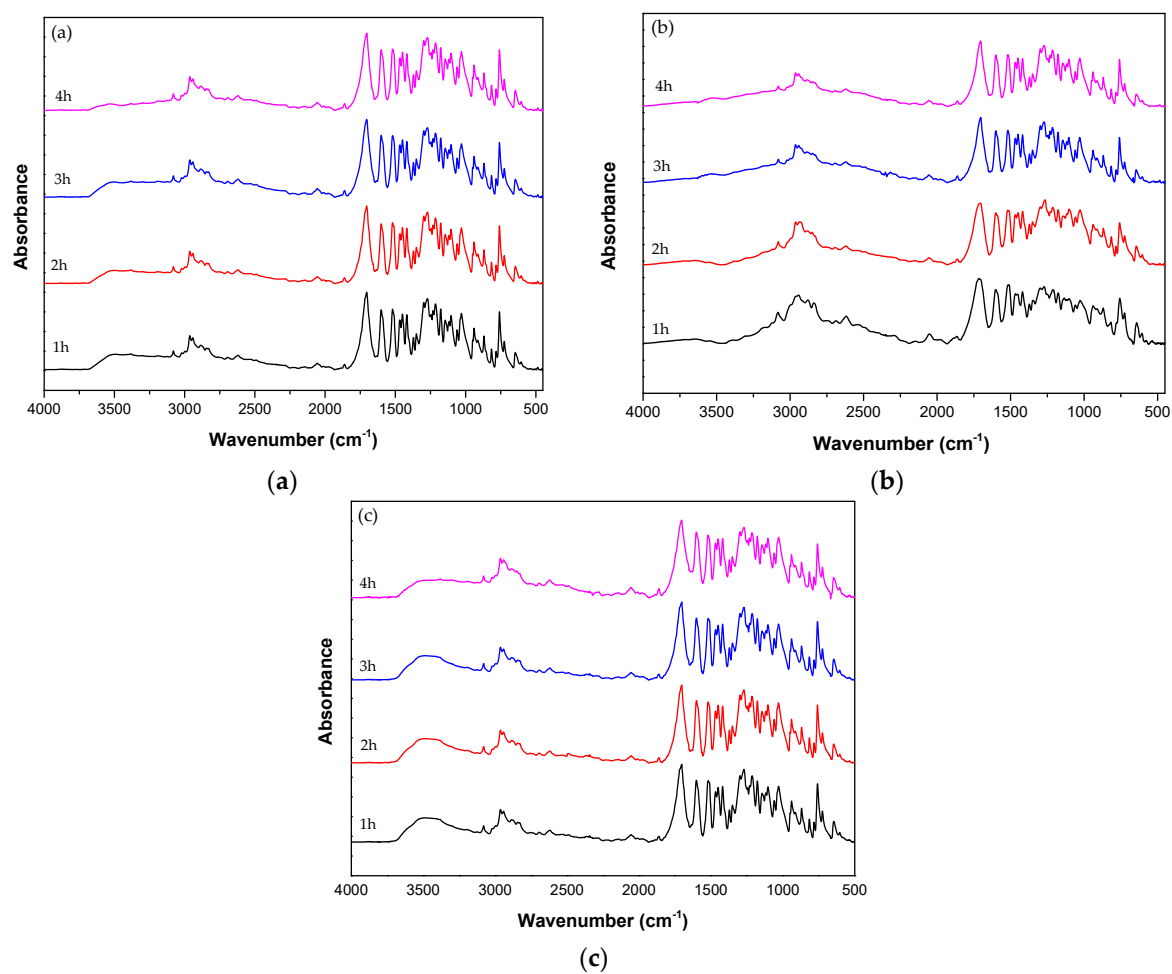


Figure S3. FTIR spectra of the crude reaction mixture during the polycondensation step at different time intervals in the presence of (a) TBT, (b) TIS and (c) Sb_2O_3 catalyst.