

Supplementary Material

Bio-based Nanocomposites Prepared by In-situ Polymerization of Furfuryl Alcohol with Cellulose Whiskers and Montmorillonite Clay

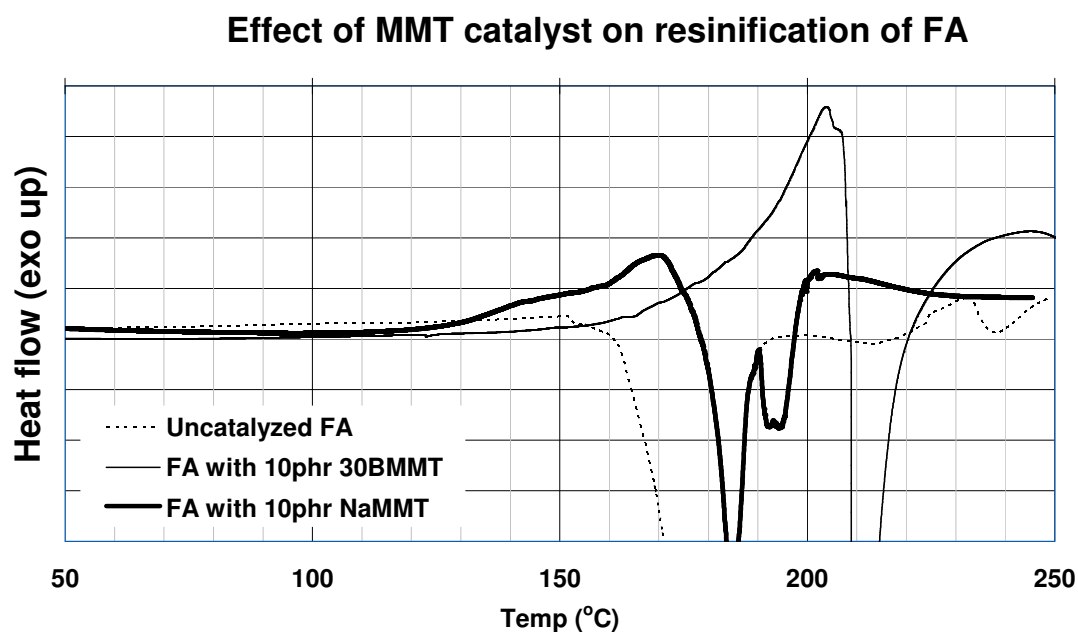


Figure S1. DSC traces collected at 10°C/min, using sealed DSC pans, comparing uncatalyzed FA with FA catalyzed with 10 phr MMT. For FA with 10 phr NaMMT or 30BMMT, exothermic curing is observed in the region 130 – 210°C, followed by endothermic loss of water from polymerization and volatiles (the DSC pans could not be sealed tightly enough to avoid through-leakage). For uncatalyzed FA, no exotherm is observed, but only endothermic loss of volatiles. The sample weight loss due to through-leakage was in this case 90%.