



Supplementary Information for

Properties Optimization of Polypropylene/Montmorillonite Nanocomposite Drawn Fibers

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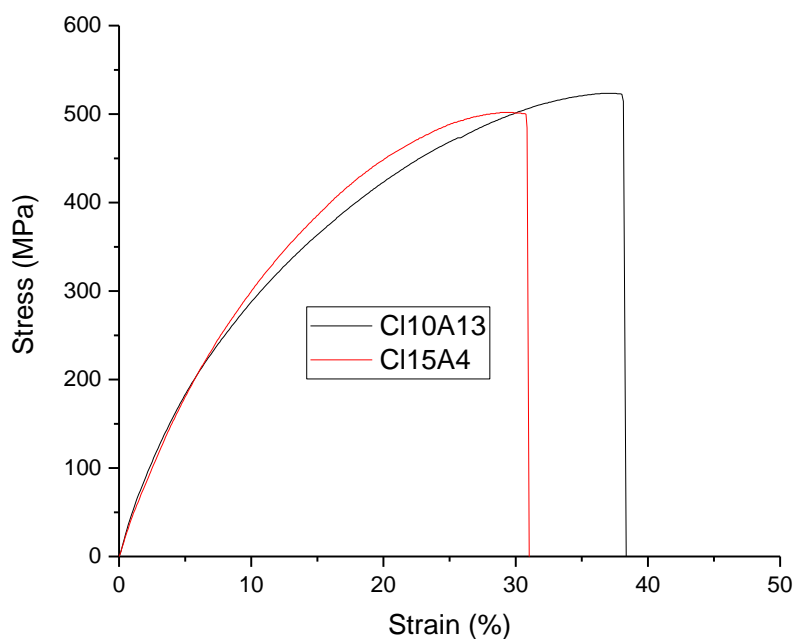


Figure S1. Typical stress-strain curves (see Tables 3 and 6 of the main file for the composition of the CI10A13 and CI15A4 samples, respectively).

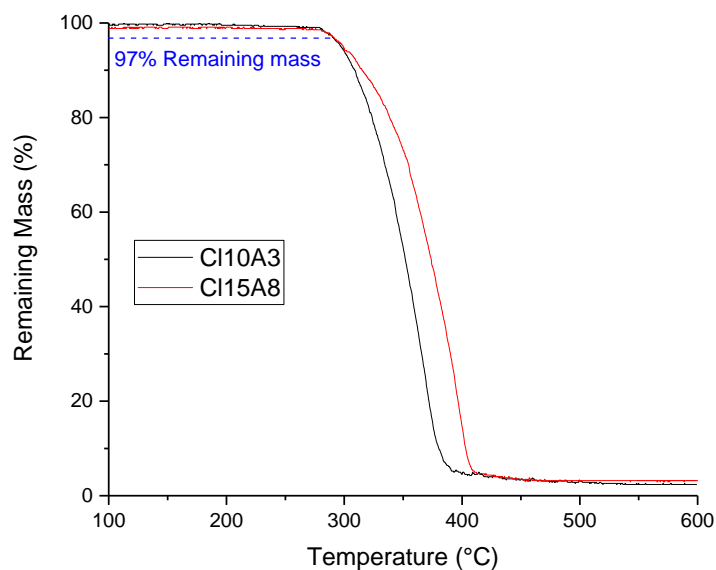


Figure S2. Typical TGA curves (see Tables 3 and 6 of the main file for the composition of the CI10A3 and CI15A8 samples, respectively).

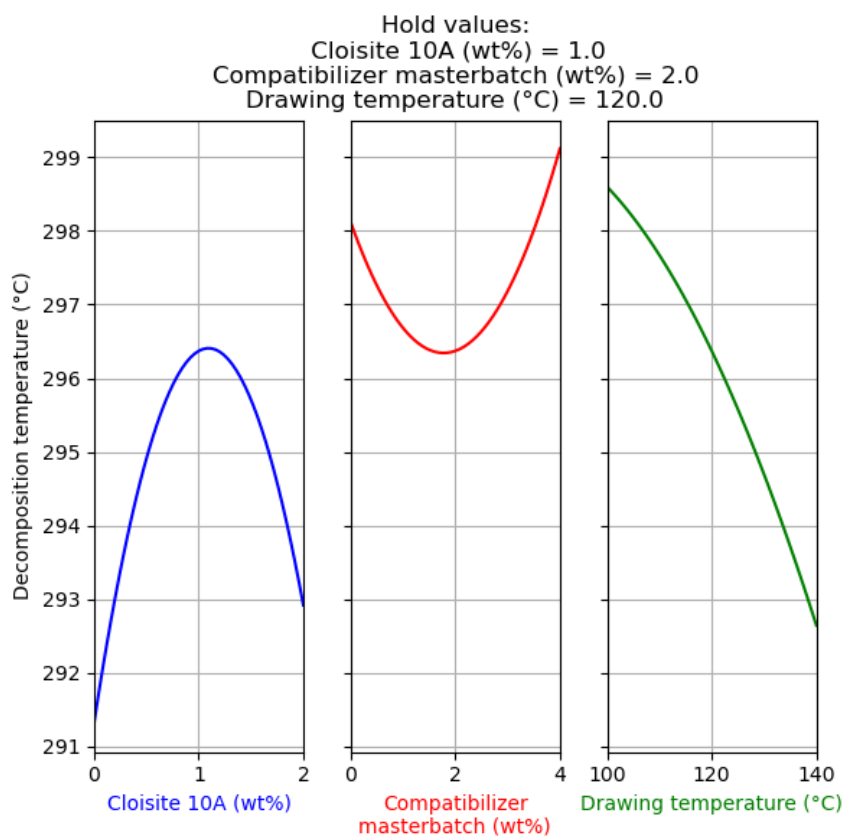


Figure S3. Main effect of factors on decomposition temperature regarding the composites with Cloisite® 10A.

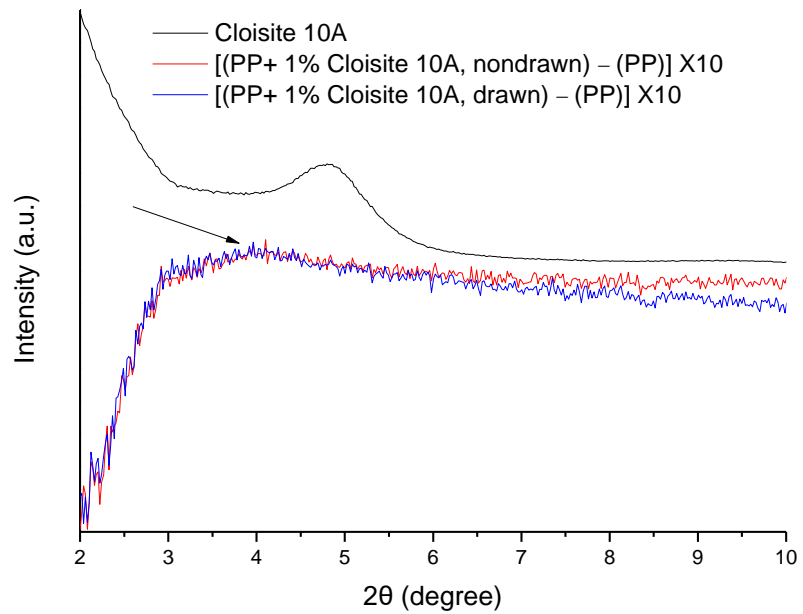


Figure S4. XRD diffractograms of Cloisite 10A, and subtracted diffractogram of PP+1% Cloisite[®] 10A (drawn and non-drawn fibers) minus PP. The subtracted diffractogram was multiplied by 10.

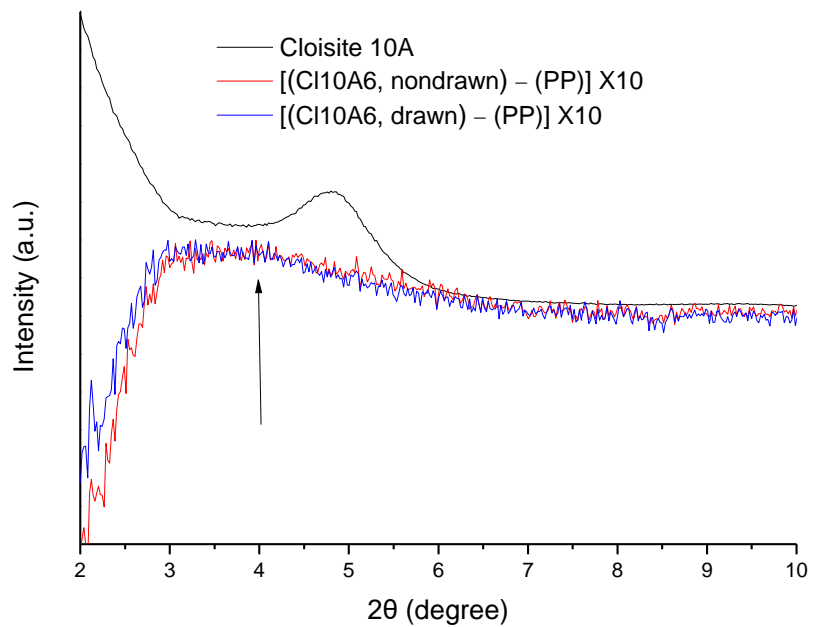


Figure S5. XRD diffractograms of Cloisite[®] 10A, and subtracted diffractogram of the Cl10A6 samples (drawn and non-drawn fibers) minus PP. The subtracted diffractogram was multiplied by 10.

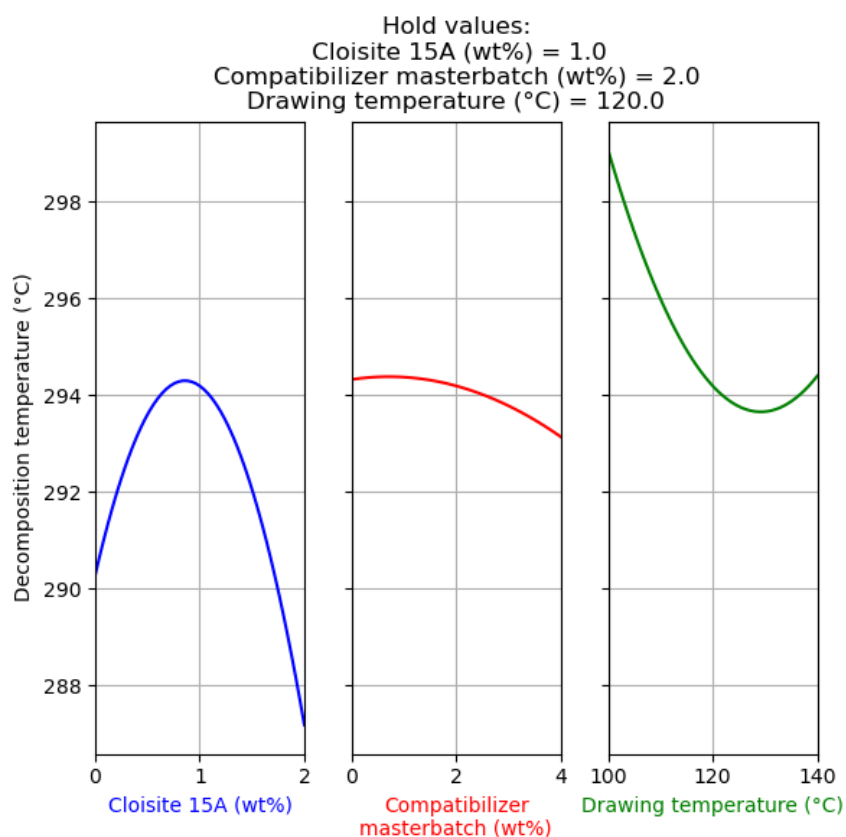


Figure S6. Main effect of factors on decomposition temperature, regarding the composites with Cloisite® 15A.

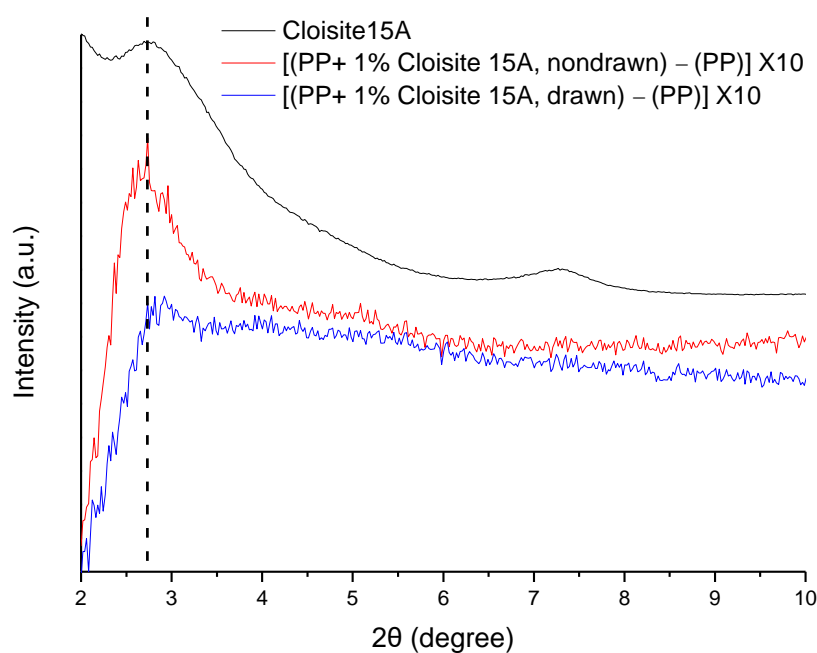


Figure S7. XRD diffractograms of Cloisite® 15A, and subtracted diffractogram of PP+1% Cloisite® 15A (drawn and non-drawn fibers) minus PP. The subtracted diffractogram was multiplied by 10.

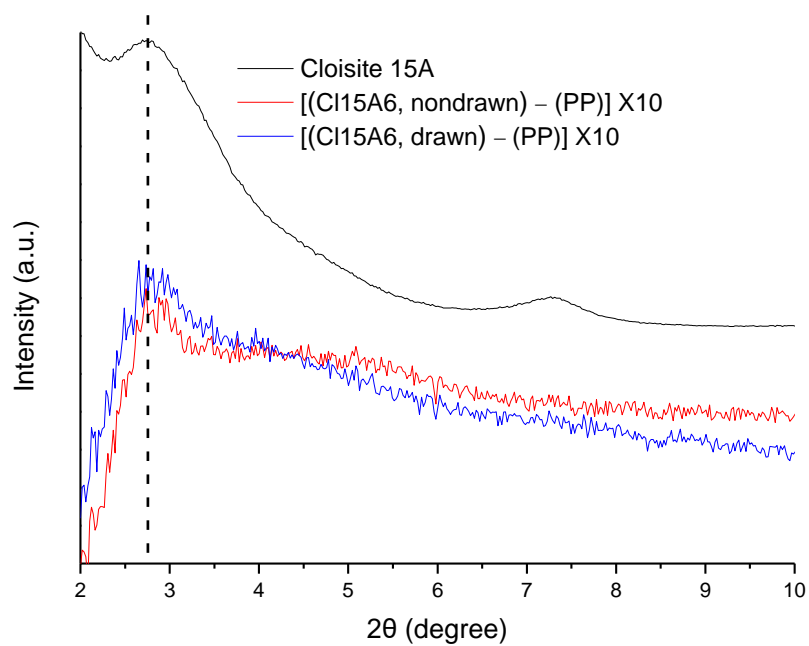


Figure S8. XRD diffractograms of Cloisite® 15A, and subtracted diffractogram of the Cl15A6 samples (drawn and non-drawn fibers) minus PP. The subtracted diffractogram was multiplied by 10.