Supporting information

Figure S1. Scanning electron micrograph of a PLA85PBS15 blend

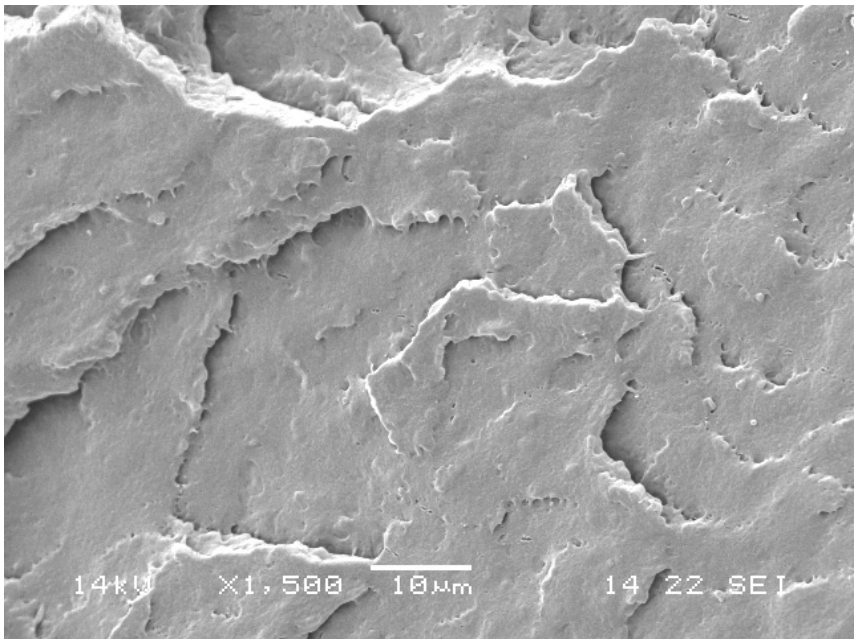


Figure S2. Scanning electron micrograph of a PLA85PBS15_BBS_0.2 film containing the 0.2 wt % of BBS

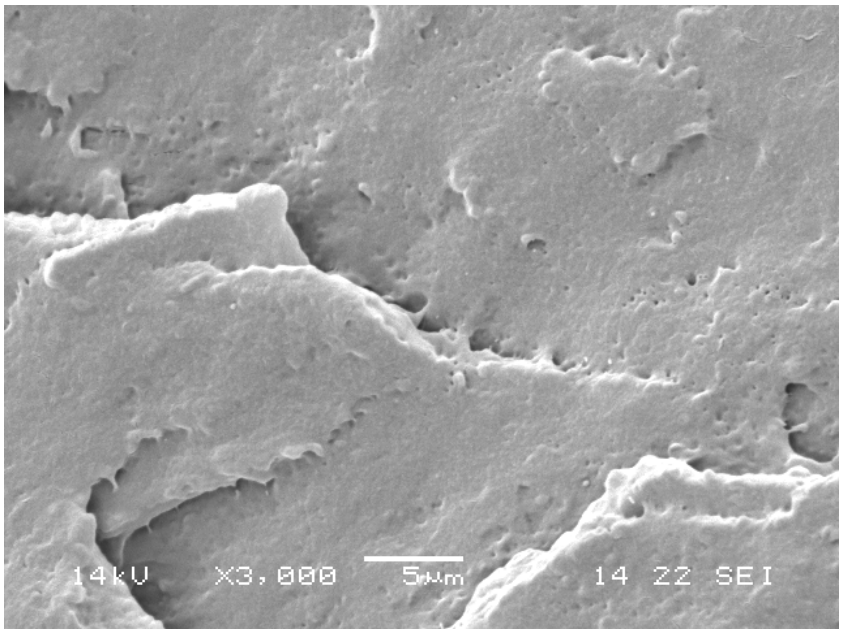


Figure S3. UV-Vis absorption spectra of PLA_BBS films as a function of dye concentration, expressed as the wt% of BBS molecules with respect to the polymer matrix (the spectra are normalized to the intensity of the isolated BBS molecular peak (380 nm))

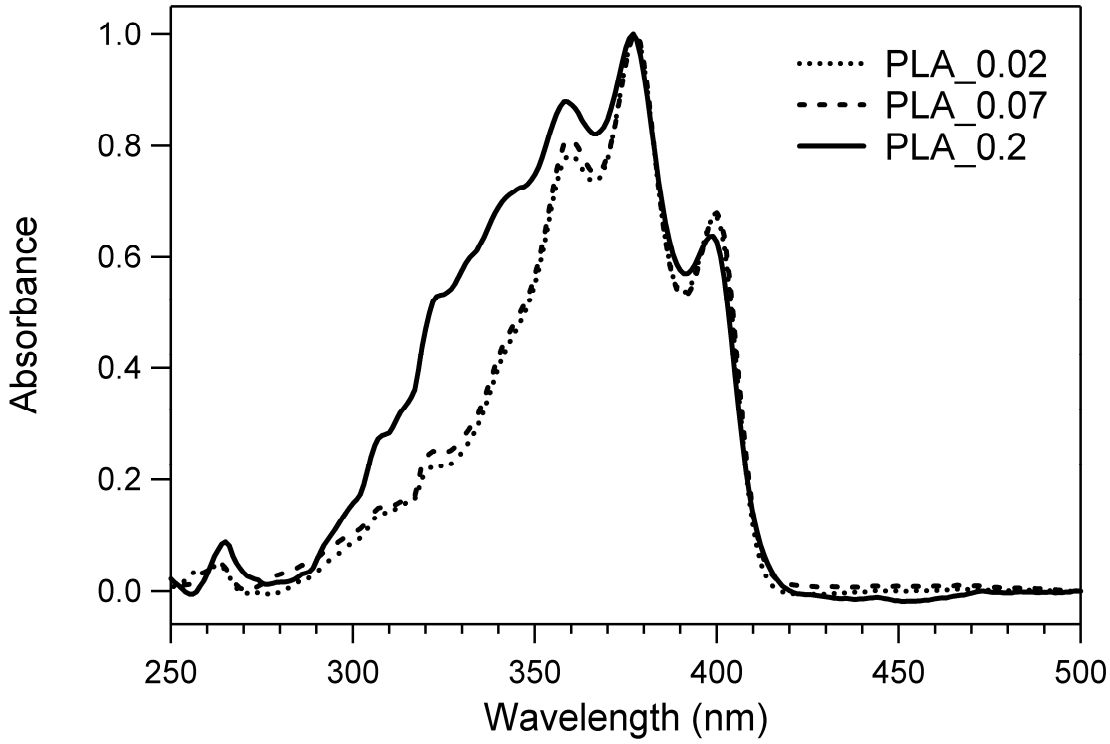
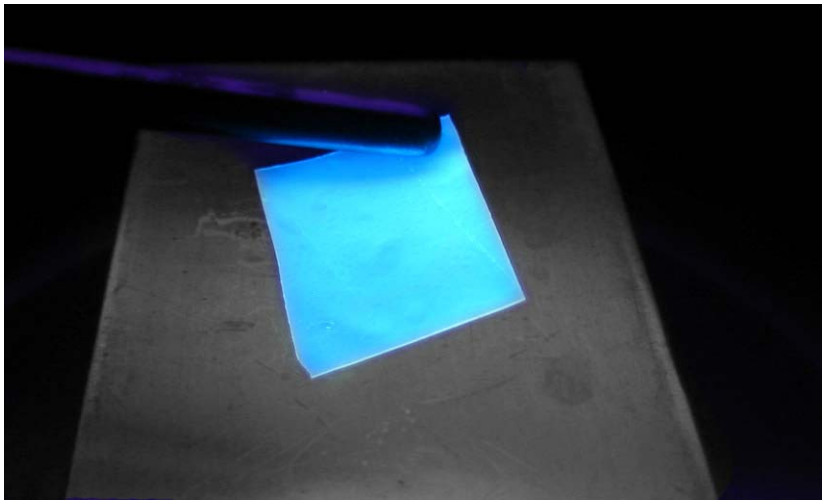
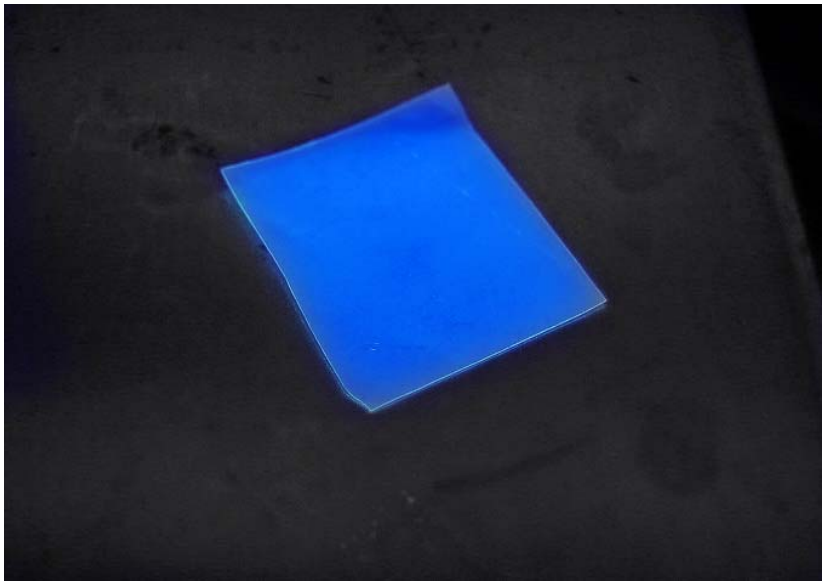


Figure S4. Pictures of a thermally stressed PLA85PBS15_BBS_0.07 film taken under illumination at 366 nm at room temperature (a) and at ~140°C over a hot plate.



(a)



(b)

Figure S5. DSC isothermal (100°C) crystallization curve of a PLA85PBS15_BBS_0.07 film