

Incorporation of the new *anti*-octadecaborane laser dyes into thin polymer films: A temperature-dependent photoluminescence and infrared spectroscopy study

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Supplementary Materials

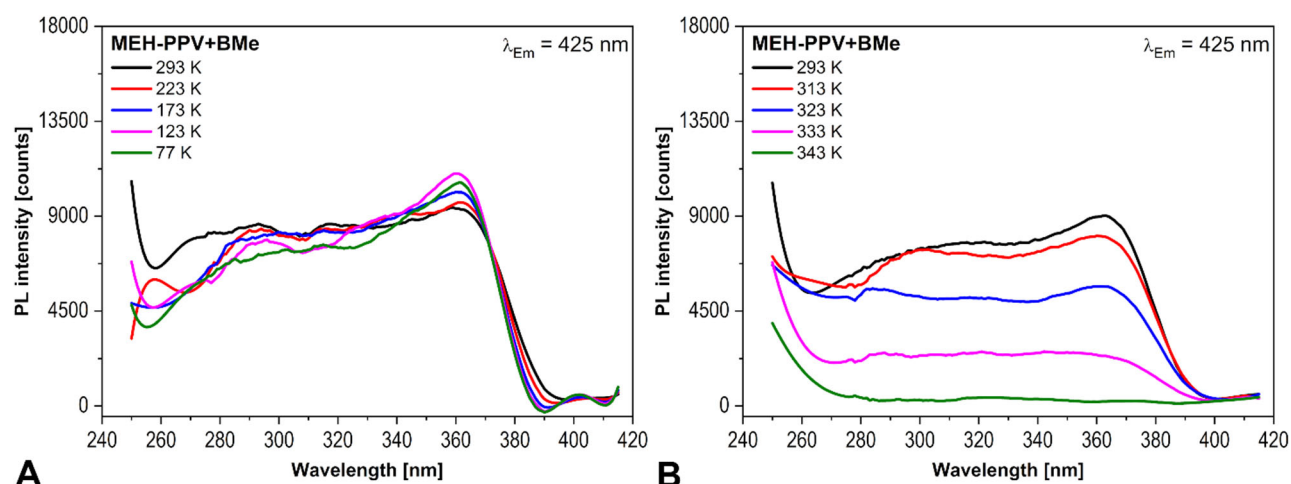


Figure S1: Excitation spectra of MEH-PPV+BMe thin film. Emission wavelength 425 nm. Cooling of the film (A), heating of the film (B).

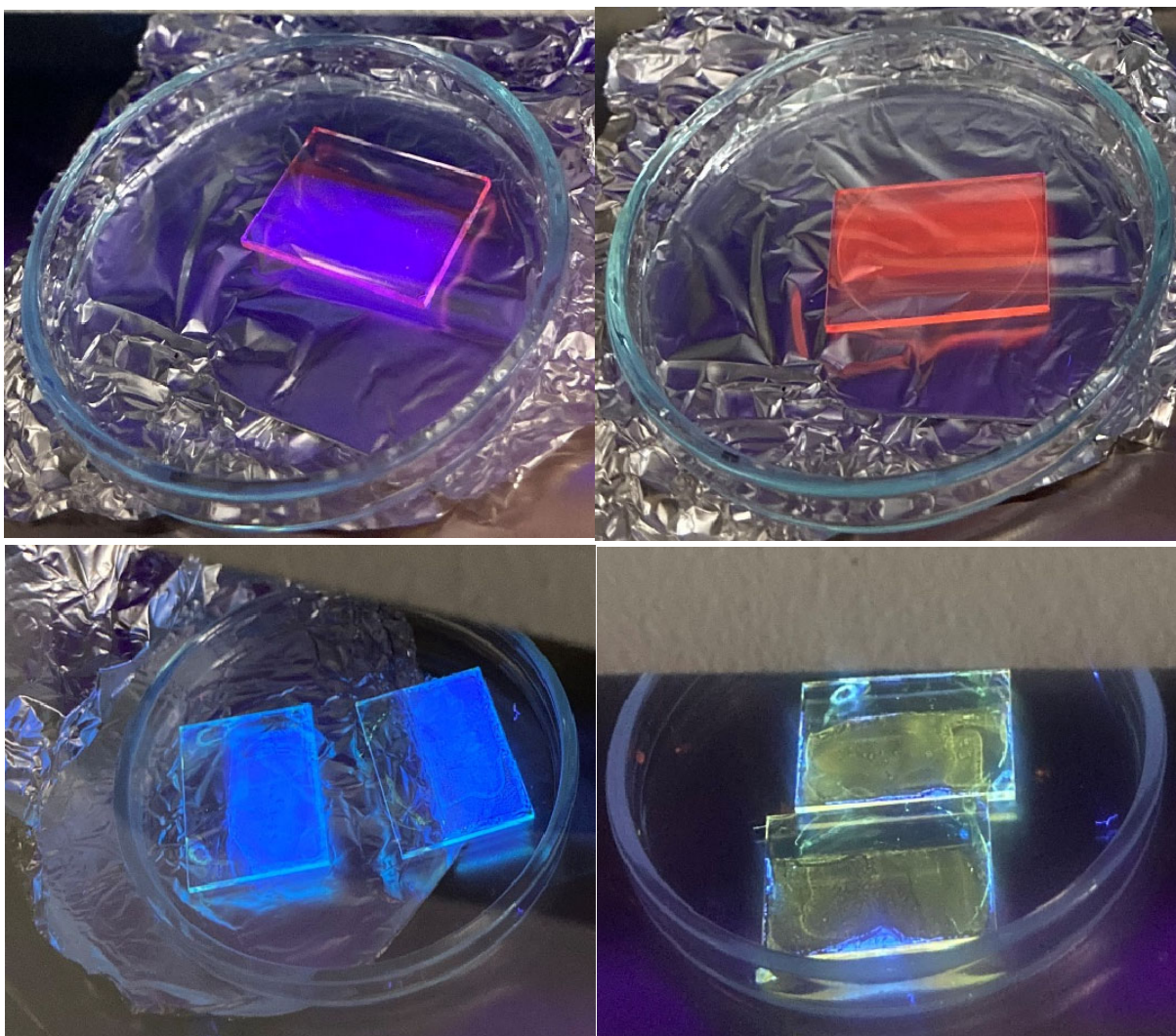


Figure S2: Photographs of MEH-PPV+BMe (top) and PTMSDPA+BMe (bottom) thin films under a UV lamp before heating (on the left) and after heating (on the right) with and without the blue emission of the borane cluster, respectively.

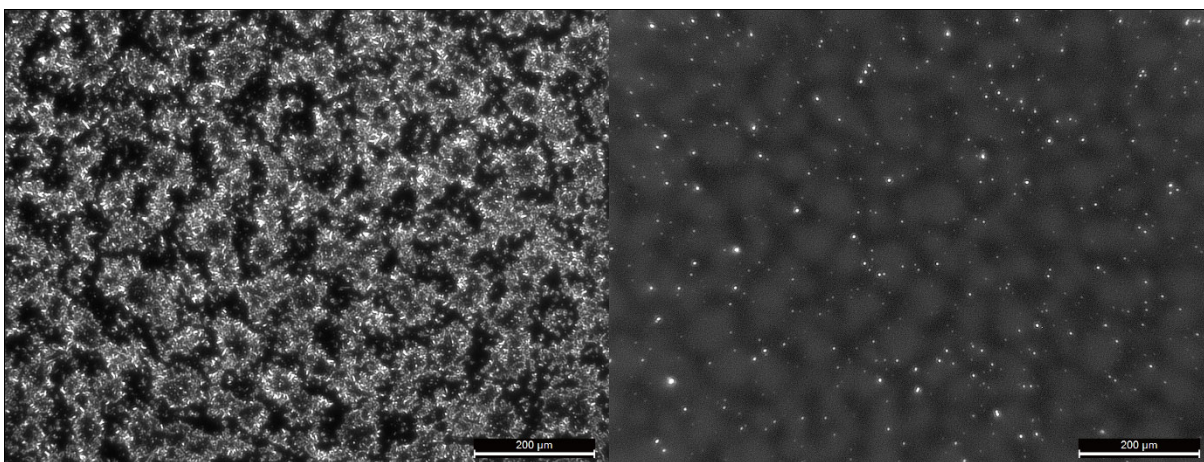


Figure S3: Images of PTMSDPA+BMe^{PL} thin films before (left) and after heating (right). Images were taken with the optical microscope Leica DVM2500 Digital Camera (Leica).

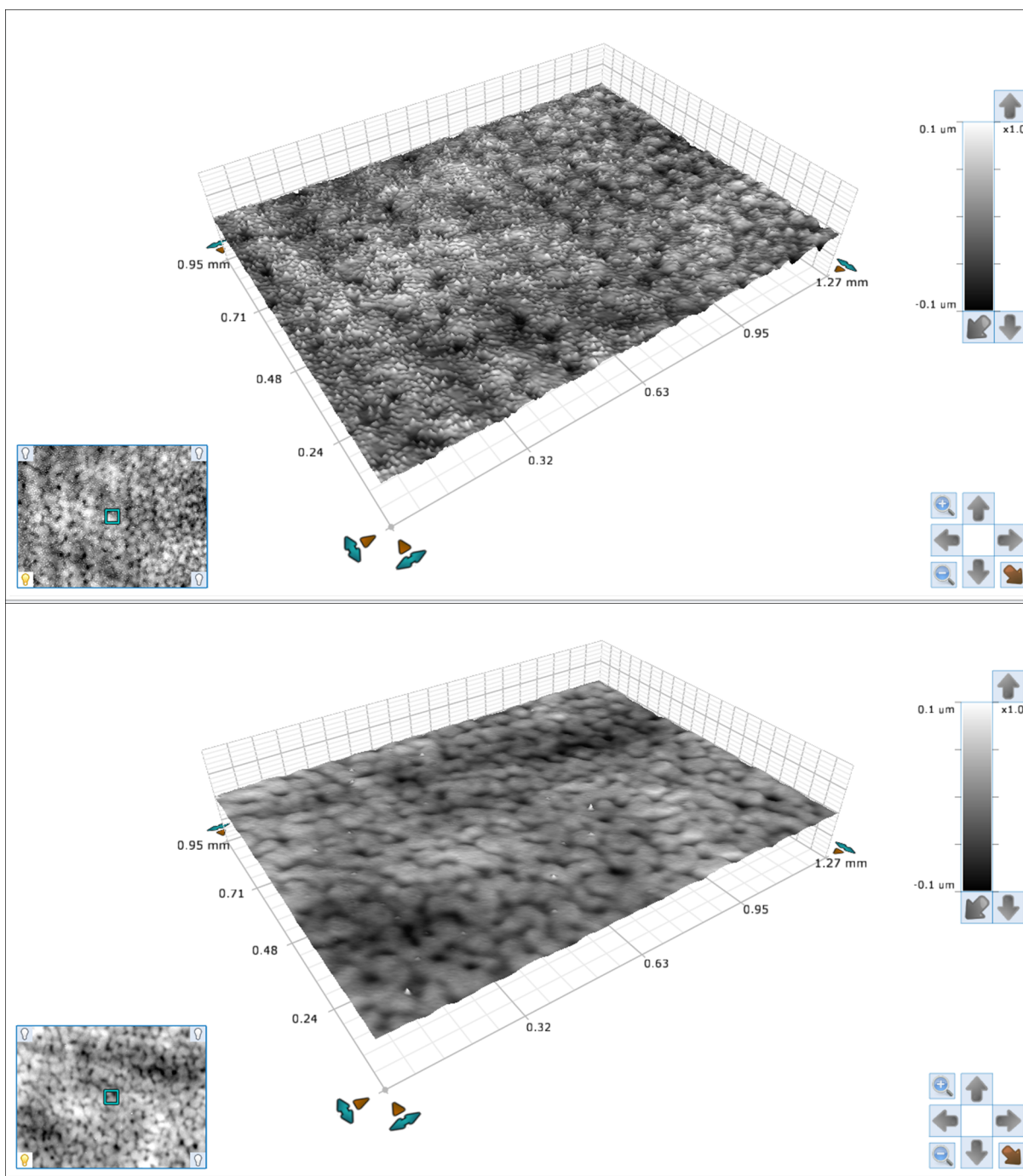


Figure S4: Images of PTMSDPA+BMe^{PL} thin films before (top) and after heating (bottom). Images were taken with the optical profilometer CONTOUR GTK-A (Bruker).

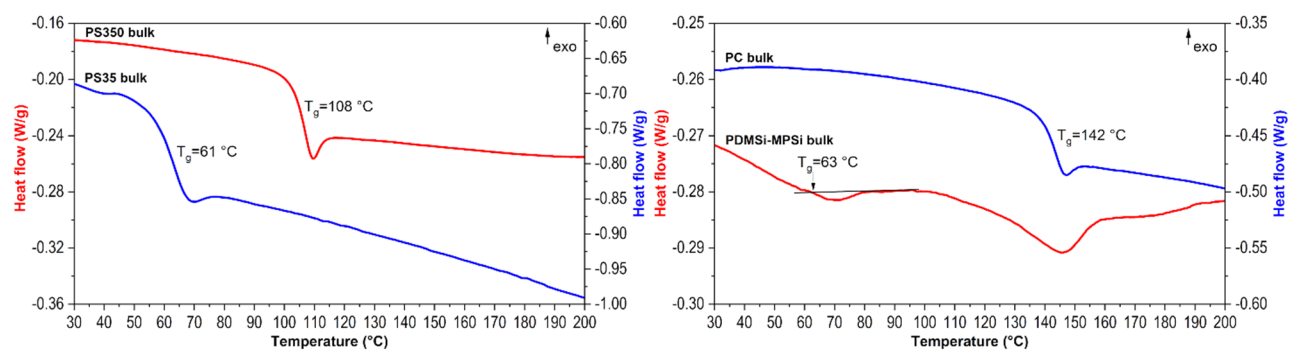


Figure S5: DSC curves of PS350 and PS35 (on the left) and PC and PDMSi-MPSi (on the right). T_g extracted from 2nd heating, heating rate $10\text{ }^{\circ}\text{C}/\text{min}$. DSC curves were measured using LabSys Evo DTA/DSC (Setaram).