

Fluorescence spectrum of dye-containing PMMA layer - influence of different excitation wavelengths

The absorption maximum of the dye (wavelength ca. 365 nm) is known from the UV-VIS-spectrum of the dye-containing polymer layer. Excitation at a wave length close to the absorption maximum causes a higher fluorescence intensity than the excitation at 390 nm clearly outside the maximum. The narrow "bands" at 369 nm and 390 nm are caused by rest intensities of the corresponding excitation wave length which arrive at the detector. The weak "band" at 720 nm is no fluorescence but the second order of the spectrograph.

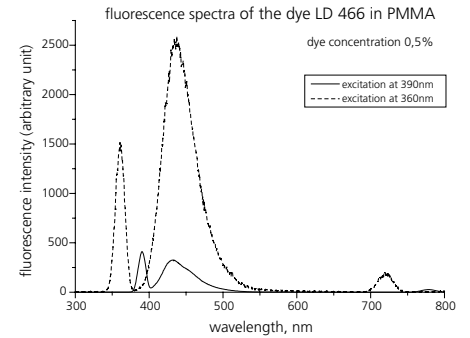


Figure 1