

Light-induced decomposition of dyes and effect of stabilizers

Figure 1

UV stability of 1% 1,8-dihydroxyanthraquinone in polymethylmethacrylate layers with different stabilizers. Transmission spectra. The PMMA layers were irradiated with UV-A light for 100 hours. By using the UV absorber Tinuvin 384-2 the dye 1,8-dihydroxyanthraquinone is very well stabilized while the other stabilizers only showed very little stabilizing effect.

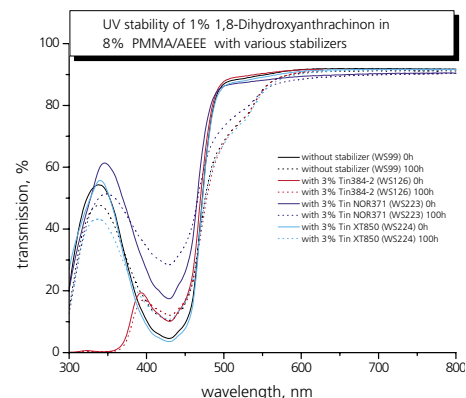


Figure 1

Figure 2

UV stability of an additive developed in the IAP with absorption maximum at 420 nm. Spectra in extinction (absorbance) representation.

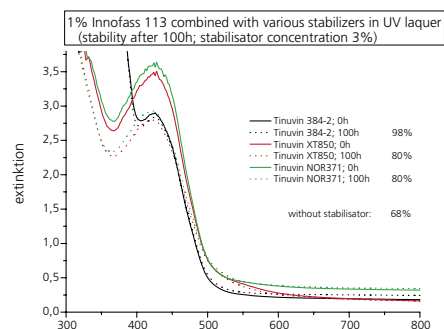


Figure 2