

2. UV PHOTOPROTECTIVE SCREENS FOR OBJECTS BELONGING TO CULTURAL HERITAGE

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Abstract

Protective screens made of cellophane coated with thin films of poly(vinylcinnamate) and (vinylalcohol–vinylbenzoate–vinylcinnamate) copolymer (43:7:50), are used for UV protection of C.I. Direct Blue 71 dye.

The UV protection level has been followed by color difference measurement and IR, UV-VIS Spectroscopy.

The photocycloaddition level of polymer is evaluated from FT-IR and UV spectra.

Due to the strong UV absorption, the analyzed cinnamic polymers are able to provide photoprotection of artifacts.