SYNTHESIS OF SQUARYLIUM DYES AND THEIR APPLICATION ON POLYESTER AND NYLON 6 FABRICS

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ABSTRACT
Synthesis and application of squarylium dyes have been undertaken in order to study their fastness properties. The dyes were characterized by different spectrometric techniques, FT-IR, UV-visible and GC/MS. The dyeing performances of the synthesized dyes were assessed on nylon 6 and polyester fabrics. The dyed fabrics were generally found to show very good to excellent light fastness, wash fastness, perspiration and hot pressing on nylon 6 and moderate good to on polyester fabric. The dye bath exhaustion was found to be between 76% and 92% on nylon 6 and 55% - 85% on polyester. The percentage exhaustion on nylon 6 was found to be very good to excellent and acceptable but with polyester it was found to be moderate to good.

Keywords: Squaric acid, squarylium dyes, exhaustion and extinction coefficient.

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