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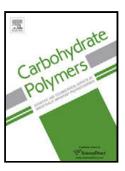
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ACCEPTED MANUSCRIPT

Improving Reactive Ink Jet Printing via Cationization of cellulosic Linen Fabriic

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Abstract:

Cellulose Linen fabric samples subjected to cationization using different cationizing agents: dodecyl trimethyl ammonium bromide (DTAB), tetra methyl ammonium hydroxide (TMAH), and Quat 188, via pad batch technique, followed by ink7jet printing with reactive dyes.

The % N as well as the K/S of the cationized samples was found to be depends on:

(a) the nature of the cationizing agent and (b) on the time of batching. As the latter increases both of the nitrogen content and K/S increases to a maximum depending on the nature of the reagent used. Further increase in the batching time up to 30 holds is accompanied by a decrease in both the %N and K/S irrespective of the nature of the cationizing agent used. Cationization improves the printability of reactive dye in the printability of the printability of reactive dye in the printability of the printability of

Keywords: Ink-jet, linen, cationization, quaternary ammonium salts, and reactive Wyes

Introduction:

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Coloration of cellulosic fabrics with anionic dyes is still possessing 190me environmental concern as it consumes large quantities water, salts and energy (260PA, 1979; Green& Sokol, 1985). Cellulose fibers when immersed in water produce a negative zeta potential and most of the dye classes suitable for cellulosic fabri22 are anionic in nature.

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