

A Study of Resin-Dye Fixation on Dyeing Properties of Cotton Fabrics Using Melamine Based Resins and a Reactive Dye

Authors : Nurudeen Ayeni, Kasali Bello, Ovi Abayeh

Abstract : Study of the effect of dye-resin complexation on the degree of dye absorption were carried out using Procion Blue MX-R to dye cotton fabric in the presence hexamethylol melamine (MR 6) and its phosphate derivative (MPR 4) for resination. The highest degree of dye exhaustion was obtained at 400 C for 1 hour with the resinated fabric showing more affinity for the dye than the ordinary fiber. Improved fastness properties was recorded which show a relatively higher stability of dye-resin-cellulose network formed.

Keywords : cotton fabric, reactive dye, dyeing, resination

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