

N-Methylolacrylamide 에 의한 면직물 에의 반응성기 도입

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When cellulose is treated with N-Methylolacrylamide in the presence of acid catalysts, pendant c-c double bonds (vinyl group) are created on cellulose. These double bonds are capable of addition reaction with the residual hydroxyl group of cellulose fibers or other reactive groups of dye stuffs.

In this study the effect of resin concentration, amount of catalysts and curing time was investigated when the c-c double bonds are introduced on cellulose using N-Methylolacrylamide. Furthermore the effect of NaOH concentration, reaction temperature and time when the created c-c double bonds react with the unreacted hydroxyl groups of cellulose in the presence of NaOH catalysts and the properties of durable press cotton fabrics finished using these double bonds were studied.