

ポリシロキサン混合系平滑剤処理による 綿平織布間の静摩擦力の変化について

Effects of Finishing with the Polysiloxane Mixture
on the Static Frictional Force Between Plain Weave Cotton Fabrics.

増 淵 久 子* 佐 貫 治 夫**
池 田 和 彦** 大 野 勝 義**

*帝京短期大学

**東京農工大学

Abstract

The static frictional force between two specimens of the same fabrics finished with the mixture of the polydimethylsiloxane (DMPS) (with 20, 100, 1,000 or 10,000 cs in viscosity) and polymethylhydrogensiloxane (MHPS) was measured to investigate the effect of DMPS and MHPS mixture on the surface characteristic of fabrics.

At a low concentration of finishing solution, DMPS with a high viscosity tended to adhere more strongly to the cotton fabrics than MHPS, but this tendency disappeared as the concentration of finishing solution increased. Though the static frictional force of the fabrics treated with the mixture was found to be intermediate between that of fabrics treated with DMPS and that of fabrics treated with MHPS, the influence of MHPS on the static frictional force was more remarkable than that of DMPS.

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