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NATURAL DYEING OF CELLULOSE-CONTAINING BLEND FABRICS WITH POLYESTER

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ABSTRACT

In this study three different cellulosic yarn viscose, flax and cotton blended with polyester were carried out to investigate the possibility of natural dyeing of blended fabrics. The natural dye used was extracted from turmeric powder in absence and presence of two different mordants. The all three blended fabrics were dyed in one bath after alkaline treatment using three different concentrations of sodium hydroxide.

The blended fabrics were evaluated by physical/mechanical properties as shrinkage, absorbance, tensile strength and elongation. The dyed fabrics assessed in terms of depth of shade, color components and fastness properties.

It was observed that natural dye extract from *Turmeric* showed level dyeing having good fastness properties with the benefits of economic and eco-friendly one-bath dyeing process

Key words: mordant, natural dye, Polyester/cellulosic blends