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Research Paper

Effect of rein wardtia flowers dye on physical properties of silk fabric

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ABSTRACT : Since the last one and half decade, application of natural dyes on different fabrics *viz.*, cotton, wool, silk, jute and some blends, etc. is gaining popularity all over the world in light of famous German ban. Only dyeing and producing a colour range for different fabrics is not enough it is equally important to study the effect of dyeing on various physical properties of the dyed fabric as end use of different fabrics depend on these properties. Thus, a study was conducted to investigate the effect of dye obtained from rein wardtia flowers on physical properties of silk fabric. The fabric was dyed and post mordanted with stannous chloride, ferrous sulphate, Indian gooseberry and *Babool*. From the experiment, it was found that general appearance, lusture and texture of dyed fabric were good. In case of fabric thickness, weight, count and flexural rigidity and crease recovery angle the dyed and mordanted samples showed increase in the properties. Breaking strength and elongation of all the samples except ferrous sulphate mordanted increased in both warp and weft directions.

KEY WORDS : Natural dye, Physical properties, Silk fabric, Lusture, Texture

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