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## SATIN SILK

Silk is considered as one of the finest and delicate natural fibers suitable for the construction of textile products with elegant look, lustrous appearance, gorgeous glaze, and elegant drapeness likewise with rich quality. However, silk is sensitive for various chemicals so that it could be easily damaged. Hence, it is evident that silk should be protected so as to accommodate the necessary characteristics in the end use products. In this context, in this research work plain woven mulberry silk fabric was chosen which was further processed with basic treatments and treated with polyacrylic acid and chitosan and then dyed with some selected natural sources and reactive dye. The treated and dyed silk fabrics were then subjected for different testing parameters such as measuring physical properties, K/S values, fastness properties, absorbency characteristics, anti-odor behavior, SEM, and XRD analysis. The results obtained from this study convince the suitability for the conventional garment/apparel end-use products including the medical textiles.



















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**SATIN SILK**

Silk is considered as one of the finest and delicate natural fibres available for the construction of textile products with elegant look, lustre, softness, durability, and elegant drape. However, silk is sensitive to various chemicals as that it could be easily damaged. Hence, it is evident that silk should be protected to so to accommodate the necessary characteristics in the end use product. In this context, in this research work, glass fibre matting is used to fabricate a fabric which was further processed with heat treatment and treated with acrylic acid and titanium and then dyed with some selected natural dyes and mordants. The treated and dyed silk fabric was then subjected for different testing parameters such as mechanical strength properties, UV radiation, moisture properties, absorbency characteristics, stability to heat, pH and SDS solution. The results obtained from this study confirm the suitability of the conventional processing and use products including the mordant solution.













