

RAJPATHTM
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SATIN SILK

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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, antiodor 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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Silk is considered as one of the finest and delicate natural fibres available for the construction of textile products with elegant look, lustreous appearance, superior drape, and elegant drapability. However, silk is sensitive for various chemicals as it could be easily damaged. Hence, it is evident that silk should be protected to so as to accommodate the necessary characteristics in the end use product. In this regard, in this research work plant waste mulberry silk fabric was treated with natural preservative with lemon treatment and treated with dye, styler and acid treatment and then dyed with some selected natural dyes and mordant dye. The treated and dyed silk fabric were then subjected for different testing parameters such as mechanical physical properties, UV light, moisture properties, shrinkage characteristics, suitable for fabric, SEM and XRD analysis. The results obtained from this study confirms the suitability for the conventional garments and wear products including the sarees.











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This is considered as one of the finest and delicate natural fibres suitable for the manufacture of textile products with elegant look. Intensive exposure, perspiration, grease, dirt and frequent washing with rough material, detergent, alkali or excessive hot water, chemicals so that it could be easily damaged. Hence, it is advised that silk should be protected as far as circumstances (for instance, temperature in the hot sun problem) in this respect. In this respect, silk piece must be kept in old fabric was chosen which was further protected with heavy fabricate and treated with poly-urethane and then dried with some selected natural insecticide and moisture etc. The treated and dried silk fabric was then subjected for different testing parameters such as tensile, tear, abrasion, pilling, etc. (all values) for the purpose of determining the quality of the fabric. The results showed that the silk fabric was not damaged by the treatment process and was suitable for the intended purpose.