

RAJPATHTM
"The Secret of Style"

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SATIN SILK

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S A T I N S I L K

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 drapability 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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SATIN SILK

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 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 regard, in this research work plant waste mulberry silk fabric was chosen which was further processed with laser treatment and treated with anti-static and anti-crease and then dyed with some selected natural dyes and reactive dye. The treated and dyed silk fabric were then subjected for different testing parameters such as measuring physical properties, UV reflectance, moisture regain, absorbance characteristics, suitable for better, SEM and XRD analysis. The results obtained from this study confirm the suitability for the conventional garmenting and use products including the modern fashion.











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SATIN SILK

Silk is considered as one of the finest and delicate natural fibres suitable for the construction of textile products with elegant look. Intensive appreciation, gorgeous glow, and elegant fragrance, however, with rich quality. However, silk is sensitive for various chemicals so that it could be easily damaged. Hence, it is advised that silk should be protected as far as circumstances like moisture, temperature as the end use products. In this context, in this saree with plain motif, neither any old fabric was chosen which was further processed with heavy treatments and treated with poly-urethane and then dyed with some selected natural colours and natural dye. The treated and dyed silk fabric was then subjected for different testing parameters such as tensile, tear, physical properties, UV, colour, fabric properties, shrinkage, dimensional stability, etc. The fabric, GSM, and MSD analysis. The results obtained from this study confirm the suitability for the traditional garments and new products including the modern styles.



