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"The Secret of Style"

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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. Intense appearance, gorgeous glow, and elegant drapeability, known with such quality. However, silk is sensitive for various chemicals as this is made by insects. Hence, it is evident that silk should be protected so as to avoid damage to its secondary characteristics in the end use products. In this context, in this research study three major methods to silk fabric was chosen which was further processed with basic treatments and treated with polyurethane and acid dyes and then dyed with some selected natural dyes and natural dyes. The treated and dyed silk fabrics were then subjected for different testing parameters such as tensile, tear, physical properties, UV radiation, surface properties, absorbance characteristics, etc. for better SEM and ESEM analysis. The results obtained from this study compares the suitability for the conventional processing and use products including the modern process.



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Silk is considered as one of the finest and delicate natural fibres suitable for the construction of textile products with elegant look, lustrous appearance, superior drape, and elegant drape. However, silk is sensitive to 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 fabric made up of silk fabric was chosen which was further processed with laser treatment and treated with poly-urethane acid and chlorine and then dyed with some selected natural dyes and reactive dye. The treated and dyed silk fabric was then subjected for different testing parameters such as mechanical properties, IR spectra, surface properties, absorbance characteristics, moisture content, 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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Silk is considered as one of the finest and delicate natural fibres available for the construction of textile products with elegant look. However, apart from its aesthetic value, silk also possesses other properties such as strength, durability, and elegant drape. However, silk is sensitive to various elements as it is not as easily dyed as cotton. Hence, it is essential that the silk should be properly treated to ensure the retention of its natural characteristics in the end use products. In this context, in the research work, some studies are being carried out to develop a new silk fabric which was further processed with some treatments and finished with specific dyes. The treated and dyed silk fabrics were then subjected for different testing parameters such as measuring physical properties, Rte values, tensile properties, abrasion characteristics, colour changes, and so on. The results obtained from the study confirm the suitability for the construction of garments and use patterns including the natural fibres.





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