

RAJATHTM
"The Secret of Style"

tathastu



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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 value, 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.

Elegance
the art of fashion

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Silk is considered as one of the finest and delicate most of fibre suitable for the construction of textile products with various look, lustre appearance, superior drape, and elegant drapability. 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 as to accommodate the necessary characteristics in the end use products. In this context, in this research work plant based methylene blue (MB) dye was chosen which was further processed with laser treatment and treated with polyethylene glycol and titanium and then dyed with some selected natural dyes and reactive dye. The treated and dyed silk fabrics were then subjected for different testing parameters such as colour fastness properties, UV reflectance, moisture regain, absorbance characteristics, modulus, tenacity, GSM, and XRD analysis. The results obtained from this study confirm the suitability of the conventional green-tinted and new products including the modern textiles.



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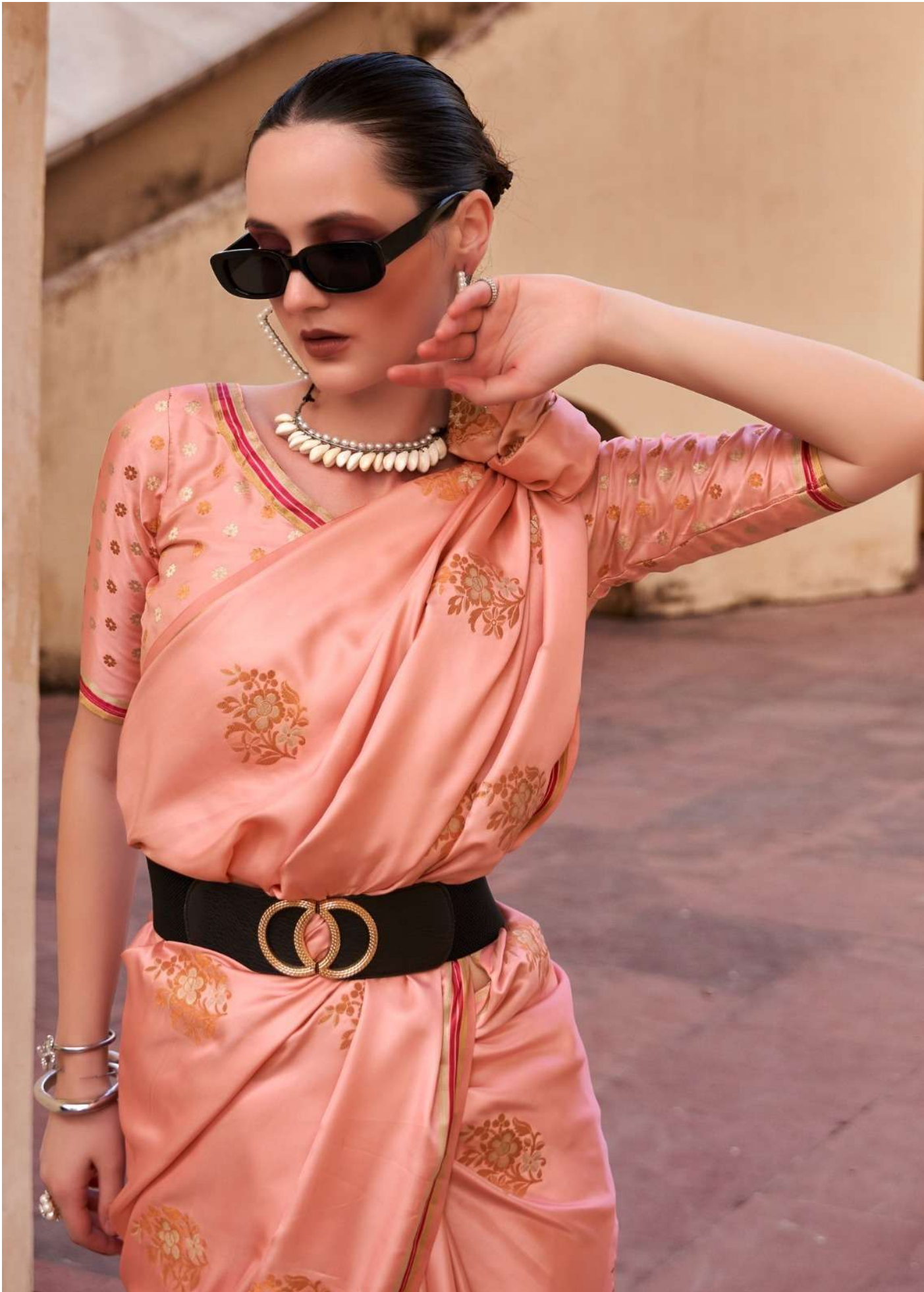


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Silk is considered as one of the finest and delicate natural fibers suitable for the construction of textile products with elegant look, lustrous appearance, gorgeous glaze, and elegant drapeness likewise with rich quality. However, silk is sensitive 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 suitable for the construction of textile products with elegant look. Intense appearance, gorgeous glow, and elegant drapability makes it a perfect choice for sarees, blouses, and other traditional Indian attire. However, silk is sensitive for various chemicals as they can lead to easily damaged. Hence, it is advised that silk should be protected as far as possible from the secondary contaminants in the end use products. In this context, in this research, high glass fibre mat made of old fabric was chosen which was further processed with heavy formalin and treated with polyacrylamide and chitosan 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 tensile strength, elongation, tear strength, impact properties, absorbance characteristics, moisture regain, UV, SEM, and EDS analysis. The results obtained from this study confirm the suitability for the conventional preservation and use products including the medical sector.

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