



DYEING NYLON WITH TURMERIC AS A NATURAL DYE

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Abstract

Presence of natural dyes in products has attracted the attention of the entire world, because of the non-hazardous nature of natural dyes. In this study we discuss about the nature of Nylon as a textile material and its dyability with a natural dye to achieve a world renowned customer (Marks & Spencer) standards. Here we have considered Turmeric (*Curcuma Zanga*) as the example. As a textile material, nylon yarns are widely used in the industry. In the textile market nylon is used 80-90% from the total volume for under wear and sportswear. (e.g.: Bras and briefs, boxers, skinnier and shorts) where all these garments require very high level of colour fastness to water, perspiration, light also with finishes like antimicrobial effect. When considering these requirements of the market it seems that there is a huge demand for natural dyed nylon fabric. Also this eliminates the environmental impact of synthetic dyes and the process of treating the effluent from textile dyeing. Also this study was undertaken to investigate below main areas.

- Find out the most effective method of dyeing nylon with turmeric
- How we can achieve the customer performance standards for the product
- What will be the mechanism of dyeing nylon with turmeric
- How we can achieve different tones from turmeric as a yellow dye
- Effect of mordants on dyeing nylon with turmeric