Dischargeability Improvements of natural Silk

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Abstract:

Abstract: Glucose is used as a reducing (discharging) agent to destroy the ground dye in alkaline medium, since it contains an aldehyde group in its molecule which has reducing properties. Sodium bisulphite (NaHSO3) is also used as an aid substance to improve the dischargeability . Indigo vat dyes are suitable for the dischargeable ground because it contain carbonyle group which can transformed into the leuco compound by reduction, characterized by the group C-OH in which it is water soluble and therefore it can be removed from the fiber. Tensile strength of discharged silk fabric was examined. Key words: Silk; printing ; glucose; reducing agent; indigo vat dye; sodium bisulphate; dischargeable ground: Tensile strength.

Published In:

Textile Printing, Dyeing and Finishing Department, Faculty of Applied Arts, Helwan University, Cairo , Egypt. * Faculty of Specific Education Assuit University, Egypt. , NULL , NULL