

Research Article OMICS Internationa

## Dye Uptake of Polyethylene Terephthalate Fiber in Non- Aqueous Solvent

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uptake

## Introduction

e conventional dyeing of most textile substrates is an energy intensive operation requiring the heating of signi cant dye bath volumes for extended periods of time to attain su cient penetration of the dyestu into the ber structure. is is true of polyaramid bers, which are particularly di cult to dye because of their high glass transition temperatures. Dyes are intensely colored substances that can be used to produce a signi cant degree of coloration when dispersed in or react with other materials by a process that at least temporarily destroys the crystal structure of the substrate [1]. ey are retained in the substrate by adsorption solution and mechanical retention or by ionic or covalent

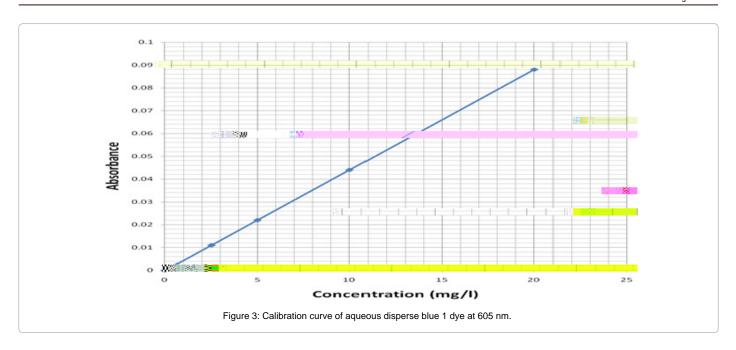
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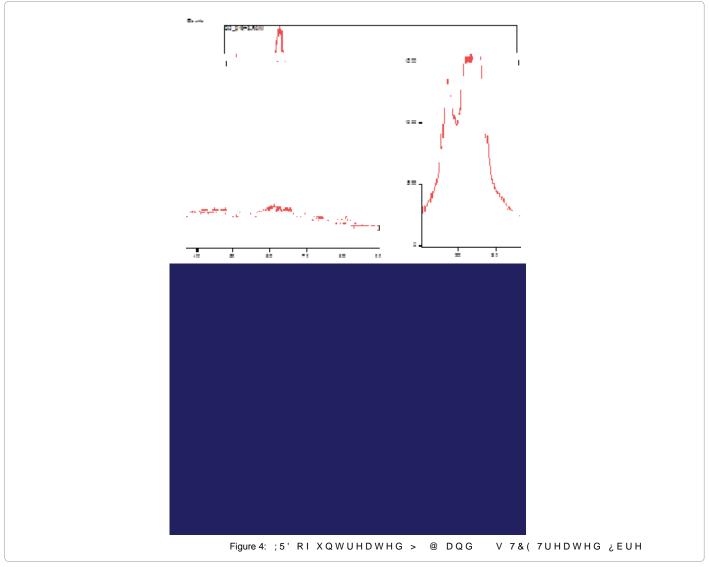
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improvement of polyester pretreated with some alkoxides while [9]. Studied the solvent induced structural modi cations of poly (ethylene terephthalate) laments. e aim of this research work is to determine the level of disperse dye uptake by polyester fabric in a non-aqueous solvents at di erent dyeing temperatures.

Materials and Methods

Materials





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