## Accepted Manuscript

Title: Obtention of 74:26 polyester/cellulose fabric blendnull with Super-hydrophobic and Supernull-nullhydrophilic nullproperties by air corona discharge treatment and their characterization

Authors: Zahra Moridi Mahdieh, Shahla Shekarriz, Faramarz Afshar Taromi, Majid Montazer

PII: S0144-8617(18)30653-2

DOI: https://doi.org/10.1016/j.carbpol.2018.06.007

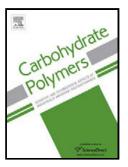
Reference: CARP 13681

To appear in:

Received date: 6-2-2018 Revised date: 27-5-2018 Accepted date: 2-6-2018

Please cite this article as: Mahdieh, Zahra Moridi., Shekarriz, Shahla., Taromi, Faramarz Afshar., & Montazer, Majid., Obtention of 74:26 polyester/cellulose fabric blendZeroWidthSpace; with Super-hydrophobic and SuperZeroWidthSpace; ZeroWidthSpace; hydrophilic ZeroWidthSpace; properties by air corona discharge treatment and their characterization. *Carbohydrate Polymers* (2018), https://doi.org/10.1016/j.carbpol.2018.06.007

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.



### ACCEPTED MANUSCRIPT

Obtention of 74:26 polyester/cellulose fabric blend with Super-hydrophobic and Super-hydrophilic properties by air corona discharge treatment and their characterization

Zahra Moridi Mahdieh<sup>a,b</sup>, Shahla Shekarriz<sup>b,\*</sup>, Faramarz Afshar Taromi<sup>a</sup>, Majid Montazer<sup>c</sup>

<sup>a</sup>Department of Polymer Engineering and Color Technology, Amirkabir University of Technology, P.O.Box:15875-4413, Tehran, Iran.

<sup>b</sup>Color and Polymer Research Centre, Amirkabir University of Technology, P.O.Box:15875-4413, Tehran, Iran.

<sup>e</sup>Department of Textile Engineering, Amirkabir University of Technology, P.O.Box:15875-4413, Tehran, Iran.

\* Correspondence to: Color and Polymer Research Center, Amirkabir University of Technology (Tehran Polytechnic), Tehran, Iran

Tel: (+9821) 64542472; fax: (+982) 66418601

*E-mail addresses*: shahlashekarriz@aut.ac.ir , shahlashekarriz2@gmail.com

#### **Highlights**

- The input power and exposure time of corona discharge treatment was assessed.
- A super-hydrophobic fabric was formed by 300 W-10 min with contact angle of 167°.
- A super-hydrophilic fabric was formed by 800 W-10 min with contact angle of 0°.

1

#### Download English Version:

# https://daneshyari.com/en/article/7781264

Download Persian Version:

https://daneshyari.com/article/7781264

Daneshyari.com