عنوان مقاله:

The Effect of Percentage of Remaining Hair Bred and Ambient Relative Humidity on Electrical Resistance of Cashmere Fiber

محل انتشار:

ماهنامه بین المللی مهندسی, دوره 15, شماره 7 (سال: 1381)

تعداد صفحات اصل مقاله: 8

نویسندگان:

M. Johari - *Textile Engineering, Amirkabir University of Technology*

E. Ekhtiyari - *Textile Eng. Dept., Yazd University*

M. Abedi - *Electerical Engineering, Amirkabir University of Technology*

خلاصه مقاله:

Among different types of controlling systems, the ON/OFF digital relative humidity control was used for measuring electrical properties of cashmere fibers to make the ambient relative humidity fixed. To achieve this goal the required hardware and software were designed and fabricated. The electrical resistance of fine and coarse hair cashmere fiber was measured by charge and discharge condenser method using Rothschild static voltmeter type R-۴۰۲۱ made in Germany. Experimental results show that the electrical resistance of the fine under coat fibers is considerably greater than that of the coarse under coat fibers. The difference depends on the breeds. With increasing relative humidity, difference of electrical resistance of fine under coat and coarse outer coat cashmere fiber is decreased.

کلمات کلیدی:

Cashmere, Relative humidity, Dehairing, Control ON/OFF, Electrical resistance