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PHYSICOCHEMICAL CHARACTERIZATION OF SEVERAL TYPES OF NATURALLY COLORED COTTON FIBERS FROM PERU

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HIGHLIGHTS

- Elemental composition, physical dimensions and crystallinity of different types of naturally colored cotton (NCCs) fibers from Peru were investigated.
- Cotton samples contain mainly carbon, oxygen and hydrogen, but darker color samples also presented nitrogen.
- It was also found that the white cotton sample exhibited the longest fibers whereas the darker color samples showed the shortest values in length
- The crystallinity seems also decrease with color intensity of NCCs.
- The thermal stability of white cotton fibers was similar to those obtained for the NCCs.

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