



LaSalle College

Textile Evaluation Burning Test Report

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The Burn Test to Identify Textile Fibers

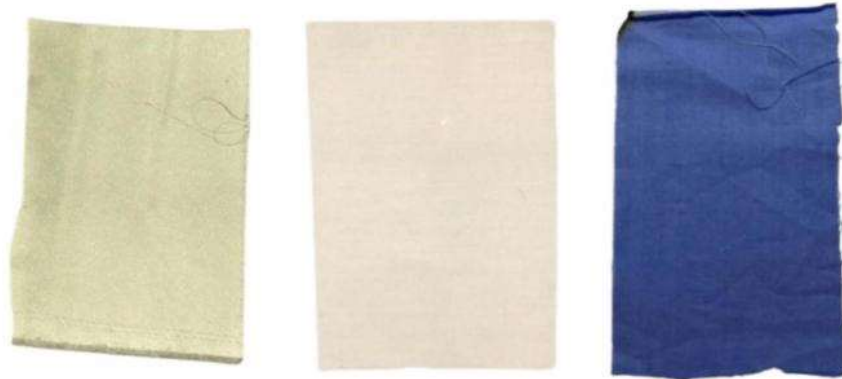
On Friday, April 9th, Textile II Class did a burn test aimed to identify textile fibers.

but i started mine at april the 10th since my fabrics arrived late than the others

i did 3 tests which are a burning test, water absorbency test, and expansion or shrinkage

test (to analyze the shrinkage level, we conduct a washing test by cutting a small piece of

fabrics and washed them with detergent). All tests were done on 3 different fabrics; silk, pima





Green (Silk)



White (Toyobo)



Blue (Pima Cotton)

Burning Test

The result for this fabric is that the burnt area became hard, similar to a plastic's texture. When the fabric was near the flame, it shrunk.

Water Absorbency Test

This fabric has the second highest absorbency level. However, this fabric has different absorbency characteristics as at first the fabric does not seem to absorb water, and after a few seconds, the silk finishes absorbing the water faster but the water doesn't spread to the whole fabric.

Expansion or Shrinkage Test

For this silk fabric, it did not show any shrinkage after 4 times washing. This happened because it is not made from natural fiber.



Green (Silk)

Burning Test

When the fabric was near to the flame, it shrunk. The results for this fabric show that the fabric became hard, similar to a plastic's texture. It has the same result as the silk.

Water Absorbency Test

The least absorbent fabric is this toyobo cotton. At first, it was fast to absorb the water, but at the end, when other fabrics finished absorbing all the water and spreading it to the whole fabric, we could still see the water droplets left on the fabric's surface.

Expansion or Shrinkage Test

This fabric shrinks in the width at the second wash around 0,1cm because the polyester is also located at the length direction. This happened because the subsequent washing leads to more shrinkage in the natural fiber.



White (Toyobo)

Burning Test

Since this fabric is purely natural fabric, the burnt area has a gradation of color; ranging from black, brown and yellow. Also, the blue surface that's not burnt.

Water Absorbency Test

This fabric has the highest absorbency level. It immediately absorbed water to the whole fabric.

Expansion or Shrinkage Test

This fabric shrinks in the width direction at the second wash around 0,1cm. This shows that the fabric contains polyester at the length direction and the cotton is at the width direction. This happened because the subsequent washing leads to more shrinkage in the natural fiber. Same as the toyobo fabric.



Blue (Pima Cotton)