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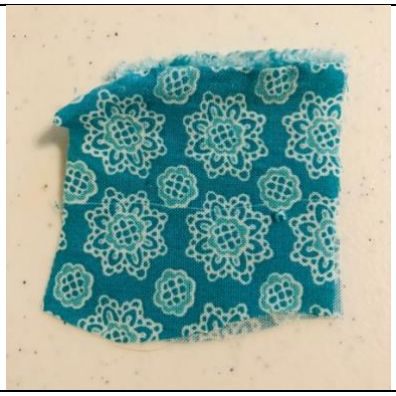
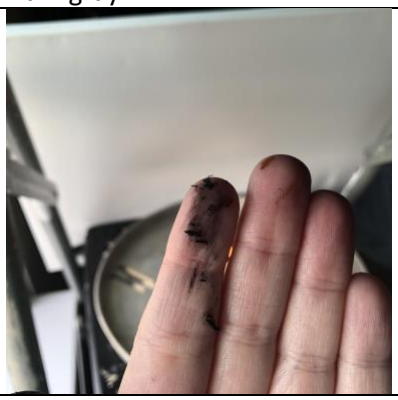
Date: September 27, 2021

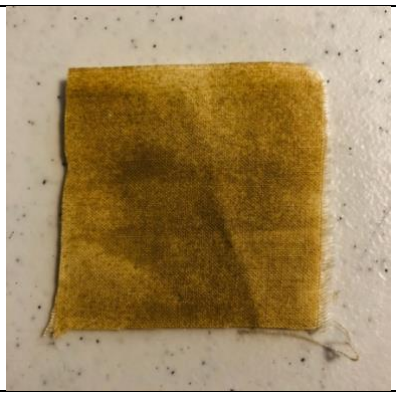
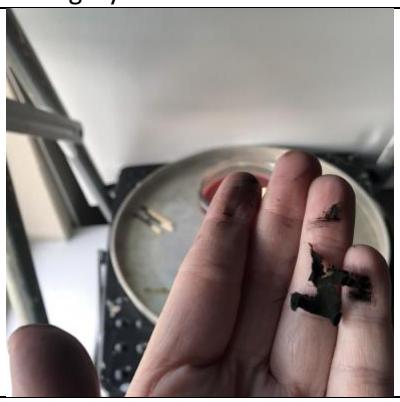
Burn Lab

Use this worksheet to capture the results of your burn lab, including pictures. Refer to The Burn Test chart from *Threads* magazine to identify the fabric.

BE CAREFUL!

Fabric 1 *Insert picture of fabric swatch*	
Behavior of the fabric as it approached the flame	Scorches. Ignites quickly.
Behavior of the fabric in flame	Burns quickly. Bright flame.
Behavior of the fabric when removed from flame	Continues to burn quickly.
Describe odor *(don't smell until cool!)*	Burning Paper
Describe the ash	Soft, smooth, and light Dark gray
Picture of burning fabric OR the resulting ash	
What type of fabric did you test?	*Rayon*

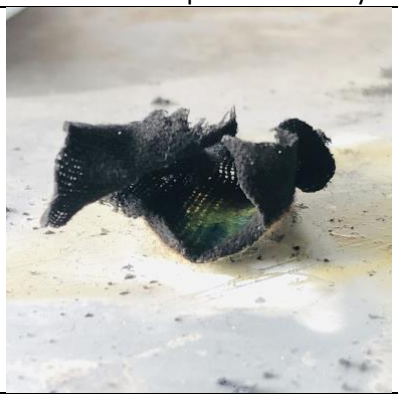
Initial thought on fabric type and contents: 100% rayon

Fabric 2 *Insert picture of fabric swatch*	
Behavior of the fabric as it approached the flame	Scorches. Ignites quickly.
Behavior of the fabric in flame	Burns quickly. Yellow flame.
Behavior of the fabric when removed from flame	Continues to burn quickly. Afterglow.
Describe odor *(don't smell until cool!)*	Burning paper
Describe the ash	Soft Dark grey to black
Picture of burning fabric OR the resulting ash	
What type of fabric did you test?	*Cotton, possibly mercerized*

Initial thought on fabric type and contents: Quilter's Cotton | 100% cotton

Fabric 3 *Insert picture of fabric swatch*	
Behavior of the fabric as it approached the flame	Edge fuses. Scorches. Curls away from flame.
Behavior of the fabric in flame	Burns quickly initially. Yellow flame. Melts.
Behavior of the fabric when removed from flame	Continues to burn. Quickly stops.
Describe odor *(don't smell until cool!)*	Chemical with hint of burnt paper
Describe the ash	Hard and irregular bead. Flakes or cracks.
Picture of burning fabric OR the resulting ash	
What type of fabric did you test?	*Polyester and cotton blend*

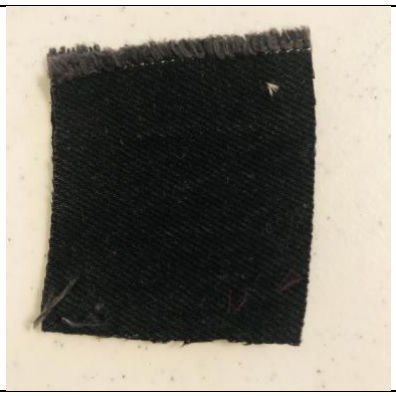
Initial thought on fabric type and contents: White Daphne | 65% polyester and 35% cotton blend

Fabric 4 *Insert picture of fabric swatch*	
Behavior of the fabric as it approached the flame	Scorches. Ignites quickly.
Behavior of the fabric in flame	Yellow to orange flame. Burns rapidly.
Behavior of the fabric when removed from flame	Continues to burn quickly. Burns itself out. Afterglow.
Describe odor *(don't smell until cool!)*	Burning paper
Describe the ash	Soft. Dark grey to black. Remaining fabric is brittle with noticeable weave and turns to ash when manipulated heavily.
Picture of burning fabric OR the resulting ash	
What type of fabric did you test?	*Cotton*

Initial thought on fabric type and contents: Cotton Flannel | 100% cotton

Fabric 5 *Insert picture of fabric swatch*	
Behavior of the fabric as it approached the flame	Slow to ignite
Behavior of the fabric in flame	Burns slowly with small flame. Fabric changes colors. Curls as it burns.
Behavior of the fabric when removed from flame	Continues to burn with small flame - smolders. Continues to curl.
Describe odor *(don't smell until cool!)*	Paper burning and hair
Describe the ash	White to light grey ash. Soft. Small almost undetectable beads.
Picture of burning fabric OR the resulting ash	
What type of fabric did you test?	*Cotton and silk blend*

Initial thought on fabric type and contents: Broom-handle Fabric | 100% polyester

Fabric 6 *Insert picture of fabric swatch*	
Behavior of the fabric as it approached the flame	Scorches (Hard to tell with color of fabric). Slow to ignite.
Behavior of the fabric in flame	Burns quickly. Smaller flame.
Behavior of the fabric when removed from flame	Continues to burn quickly. Fabric curls as it burns and smolders. Afterglow.
Describe odor *(don't smell until cool!)*	Paper.
Describe the ash	Soft. Grey.
Picture of burning fabric OR the resulting ash	
What type of fabric did you test?	*Cotton*

Initial thought on fabric type and contents: Heavy weight black denim | cotton-poly blend

Fabric 7 *Insert picture of fabric swatch*	
Behavior of the fabric as it approached the flame	Fuses. Curls or shrinks away from the flame. Very slow to ignite.
Behavior of the fabric in flame	Curls. Melts. Burns slowly.
Behavior of the fabric when removed from flame	Struggles to burn.
Describe odor *(don't smell until cool!)*	Chemical
Describe the ash	Hard bead. Won't crush.
Picture of burning fabric OR the resulting ash	
What type of fabric did you test?	*Polyester*

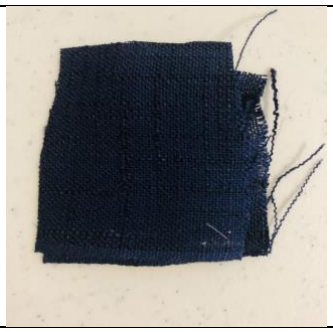
Initial thought on fabric type and contents: Polyester lining | 100% polyester

Fabric 8 *Insert picture of fabric swatch*	
Behavior of the fabric as it approached the flame	Fuses. Melts. Curls from the flame.
Behavior of the fabric in flame	Melts. Visible flame quickly decreases in size.
Behavior of the fabric when removed from flame	Melts. Struggles to burn.
Describe odor *(don't smell until cool!)*	Chemical
Describe the ash	Black bead. Not easily crushed.
Picture of burning fabric OR the resulting ash	
What type of fabric did you test?	*Polyester*

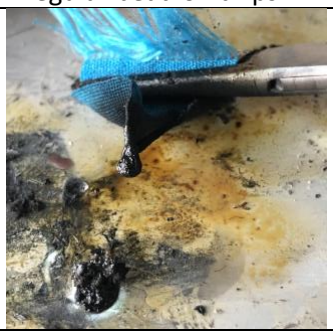
Initial thought on fabric type and contents: Premium Polyester Lining | 100% Polyester

Fabric 9 *Insert picture of fabric swatch*	
Behavior of the fabric as it approached the flame	Scorches. Ignites quickly.
Behavior of the fabric in flame	Burns quickly. Yellow flame.
Behavior of the fabric when removed from flame	Burns quickly.
Describe odor *(don't smell until cool!)*	Burning paper
Describe the ash	Soft. Light grey.
Picture of burning fabric OR the resulting ash	
What type of fabric did you test?	*Cotton.*

Initial thought on fabric type and contents: Small-rib Corduroy | cotton-poly blend

Fabric 10 *Insert picture of fabric swatch*	
Behavior of the fabric as it approached the flame	Scorches. Ignites quickly Slight curling
Behavior of the fabric in flame	Burns quickly.
Behavior of the fabric when removed from flame	Burns slower. Sputters. Ceases to flame – smolders.
Describe odor *(don't smell until cool!)*	Cross of burning hair and burning paper
Describe the ash	Soft. Feathery. Dark grey to black. Shiny beads around edges.
Picture of burning fabric OR the resulting ash	
What type of fabric did you test?	*Linen and silk blend*

Initial thought on fabric type and contents: Navy-blue Linen-like fabric | cotton-poly blend

Fabric 11 *Insert picture of fabric swatch*	
Behavior of the fabric as it approached the flame	Fuses. Curls away from flame. Turns black.
Behavior of the fabric in flame	Blazes. Burns quickly but sputters. Melts. Black drips.
Behavior of the fabric when removed from flame	Continues to burn. Melts.
Describe odor *(don't smell until cool!)*	Strong like vinegar
Describe the ash	Hard bead. Irregular bead on drips.
Picture of burning fabric OR the resulting ash	
What type of fabric did you test?	*Acetate*

Initial thought on fabric type and contents: Unknown | polyester blend

Fabric 12 *Insert picture of fabric swatch*	
Behavior of the fabric as it approached the flame	Fuses. Shrinks away from the flame.
Behavior of the fabric in flame	Ignites quickly. Sputters. Melts.
Behavior of the fabric when removed from flame	Continues to burn quickly Melts.
Describe odor *(don't smell until cool!)*	Chemical
Describe the ash	Hard bead. Irregular shaped. Black. Won't crush.
Picture of burning fabric OR the resulting ash	
What type of fabric did you test?	*Acrylic*

Initial thought on fabric type and contents: Basic Textured Satin | 100% polyester