


Burn Test for Fibers

 <small>Dental Clinic</small>	Made of	Flame looks like	Smell	Smoke	Ashes look like
Cotton	natural cellulose fiber	burns quickly, afterglow, may flare, no beads remain	like burned paper	grey or white	soft, crumbles easily, turn to dust
Hemp	natural cellulose fiber	burns quickly, bright flame, no beads remain	like burned grass	grey or white	soft grey
Linen	natural cellulose fiber	burns slowly, afterglow, no beads remain	like burned grass	grey or white	fine and soft
Rayon	manufactured cellulose fiber	burns without flame, no afterglow, no beads remain	like burned paper	grey or white better not inhale	soft grey
Silk	natural protein fiber	burns slowly, fabric curls away from the flame, leaves a dark, crushable beads	like burned hair or feathers or meat	little or no smoke	dark, gritty
Wool	natural protein fiber	Burns slowly but faster than silk, fabric curls away from flame, leaves a brittle, crushable bead	like burned hair or feathers	dark smoke	gritty powder, dark and brittle
Acetate/ Triacetate	manufactured protein fiber	Flares fast, melts and drips, leaves a hard bead	like warm vinegar	dark smoke	no ash, hard lumps
Nylon	manufactured synthetic fiber from petroleum	shrinks away from flame, melts and drips, leaves a hard bead that can not be crushed	smells like celery	black smoke, do not inhale	no ash, hard lumps
Polyester	manufactured synthetic polymer fiber from petroleum	burns and melts, shrinks away from flame, leaves a hard brown bead	chemical smell	black smoke, do not inhale	no ash, hard brown lumps
Acrylic	manufactured synthetic fiber from petroleum	flares up, burns quickly, shrinks away from flame, leaves hard, irregular beads.	chemical smell	black smoke, do not inhale	no ash, hard lumps