

Please note: All of the information below is based upon general characteristics of the tubing. With that in mind, remember that additives, colors and other factors may change the reaction of the plastic. TexLoc only offers this page as an added resource to help you determine what sort of plastic you may have in your possession. It is not intended to be the sole source for making a complete determination of the sort of plastic you may be holding.

Be sure to change your printer to LANDSCAPE setting. You will receive 2 pages that you can put together to work with.

Plastic Materials

Press a soldering iron or a hot rod (500°F/260°C) against the sample

Thermoplastics

Thermosets

Drop a small sample in water

Burn a small corner of the sample

Floats

Sinks

Self Extinguishing

Continues to Burn

PP
PE

All
Others

Material	DAP	Melamine Formalde Hyde	Phenol Formalde Hyde	Urea Formalde Hyde	Polyester	Silicone	Epoxy	Material
Observations								Observations
Color of Flame	Yellow	Yellow w/blue tip	Yellow	Yellow w/greenish blue edge	Yellow w/blue edges	Bright Yellow	Yellow	Color of Flame
Odor	Faint odor of Phenol	Fish like	Phenol	Formalde-Hyde	Sour Cinnamon	None	Pungent Aminer	Odor
Other	Black Smoke	Swells and Cracks	May or may not be self-exting.	Swells and Cracks	Black Smoke w/soot	Continues to burn	Black Smoke	Other

Burn a small corner of the sample

Self-Extinguishing*

No
Flames*

Continues to burn*

Material Observations	PE	PP	Drips				Drips								Drips				Material Observations		
			Yes		No		Yes				No				Yes		No				
Color of Flame	Blue w/ yellow tip		FEP	CTFE	PTFE	PVF	ABS	Acetal	Cellulose Acetate	Cellulose Acetate Butyrate	Cellulose Propionate	Poly Styrene	Poly ester	Cellulose Nitrate	Poly Urethane	Nylon	Poly Sulfone	Poly Carbonate	PPO	PVC	Color of Flame
Odor	Paraffin	Acrid or Diesel Fumes	Burnt Hair	Acetic Acid	Burnt Hair	Acidic	Acrid	Formaldehyde	Vinegar	Rancid Butter	Burnt Sugar	Illuminating gas or marigold	burning rubber	Camphor	Faint Apple	Burnt wool or hair	Odor of sulfur	Phenol	Phenol	Hydrochloric acid	Odor
Speed of burning*	Fast**	Slow*	—	—	—	—	Slow*	Slow*	Slow*	Slow*	Fast**	Fast**	Fast**	Fast**	Fast**	Slow*	Fast**	Slow*	Slow*	Slow*	Speed of burning
Other	Melts & Drips	—	—	—	—	—	Black Smoke w/soot	No Smoke	Black Smoke w/ soot	Some smoke w/soot	Some black smoke	Dense smoke w/soot	Black smoke w/soot	Sample burns completely	Slight black smoke	Froths	Black smoke w/soot	Black smoke w/soot	Difficult to ignite smoke	White Smoke	Other

***Speed of burning**
 * Slow = < 3 inches per minute
 **Fast = > 3 inches per minute.

- * No Flames** PTFE, CTFE, PVF, FEP
- *Continues to Burn** ABS, Acrylics, Acetals, Cellulose Acetate, Cellulose Acetate Butyrate, Cellulose Propionate, Cellulose Nitrate, Polystyrene, Polyurethane, Polyester
- * Self Extinguishing** Nylon, Polycarbonate, PPO, Polysulfone, PVC