



Material Identification

It all looks the same it's made of plastic!! If you send it to us we can tell you what it is or you can narrow it down your self to identify typically used materials:

Put it in water and see if it floats				
Yes Density of less than 1.0		No Density greater than 1.0		
Is it rigid				
Yes HDPE Polypropylene	No LDPE TPE		Yes Filled PP Nylon ABS Styrene PVC U Acetal PC PET	No PVC TPU Filled TPE
Burn a small sample				
Material	Flame	Smoke	Surface after burning	Comment
ABS	Orange and continued to burn	Sooty and black	Black but clean	No drips
ABS/FR	Orange stopped burning when flame removed	Sooty and black	Black and sooty	No drips
PC	Orange erratic flame	Sooty black smoke	Very sooty Solidifies quickly	Sweet smell
PPCO	Blue and orange flame continues to burn when flame	No smoke	Comes clear. Stays soft	Drips like a candle

	removed			
Burn a small sample				
HDPE/LDPE	Blue and orange flame continues to burn when flame removed	No smoke	No soot solidifies quicker than PPCO	Slow drip
Acetal	Small tight blue flame can spit continues to burn when flame removed	No smoke gas irritates eyes	Very sooty Solidifies quickly	Can drip
Nylon	Blue flame becoming large and orange	No smoke	No soot Solidifies quickly	No drips
PVCU	Large orange flame stopped burning when flame removed	Sooty black smoke	Very sooty	No drips
PVCP	Orange erratic flame continues to burn	Sooty black smoke	Very sooty	High plasticiser content
PET	Small orange and blue flame stopped burning when flame removed	Little smoke	No soot softens very quickly	Can drip
Styrene	Large orange flame continues to burn	Sooty black smoke	Black but no soot	No drip
TPU	Orange and blue flame extinguished when dripped	Little smoke	Black but no soot	Slow drip

A good starting point is to guess based on the application, and then you can compare the components properties directly to another sample.