UL - 94 Flammability Testing

UL 94 Flammability Testing is the first step toward obtaining a plastic recognition and subsequent listing in the "Plastics Recognized Component Directory" (former known as "Yellow Cards"). UL 94 contains the following tests: 94HB, 94V, 94VTM, 94-5V, 94HBF, 94HF and Radiant Panel.

The following is a brief description of three tests that apply to stock shape products (sheet, rod, tube and film) and how the rating system works. This is not meant as a procedure for running the tests nor as a way of determining the acceptability of a material for a particular application.

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	UL 94 Flammability Ratings Summary
Surface Burn	Doesn't ignite under hotter flame
	UL 94 5VA 4
	UL 94 5VB
Vertical Burn	Self extinguishing
	UL 94 V-0 (Best)
	UL 94 V-0 (Best) UL 94 V-1 (Good)
	UL 94 V-2 (Drips)
Horizontal Burn	Slow burn rating
45'	Takes more than 3 min, to burn 4 inches
•	Takes There man of thin, to built 4 inches
5VA Surface Burn	Burning stops within 60 seconds after five applications of five seconds each of a flame
	(larger than that used in Vertical Burn testing) to a test bar. Test specimens MAY NOT have a burn-through (no hole).
	This is the highest (most flame retardant) UL94 rating,
5VB	Burning stops within 60 seconds after five applications of five seconds each of a flame
Surface Burn	(larger than that used in Vertical Burn testing) to a test bar, Test specimens MAY HAVE a burn-through (a hole).
V-0	Burning stops within 10 seconds after two applications of ten seconds each of a flame
Vertical Burn	to a test bar. NO flaming drips are allowed.
V-1 Vertical Burn	Burning stops within 60 seconds after two applications of ten seconds each of a flame to a test bar. NO flaming drips are allowed.
V-2	Burning stops within 60 seconds after two applications of ten seconds each of a flame
Vertical Burn	to a test bar. Flaming drips ARE allowed.
H-B	Slow horizontal burning on a 3mm thick specimen with a burning rate is less than 3"/min
Horizontal Burn	or stops burning before the 5" mark. H-B rated materials are considered "self-extinguishing".
Dulli	This is the lowest (least flame retardant) UL94 rating.