

# UL94 Horizontal & Vertical Flammability Tester



## Product information

Horizontal and Vertical Flammability Testing Machine

UL 94 flame chamber. Horizontal flame chamber, vertical flame chamber

For the flammability testing of plastic materials used in consumer electric devices and appliances. Stainless steel construction with black interior and large sliding window for easy viewing. Includes a fully adjustable specimen support and precision gas flow controls.

## Testing Standards

UL 94-2006 IEC 60695-11-3 IEC 60695-11-4

UL94: Tests for Flammability of Plastic Materials for Parts in Devices and Appliances

UL94HB: Horizontal Burning Test

V-0,1,2: 20mm Vertical Burning Test

94-5VA,B: 500W(125mm) Vertical Burning Test

94VTM-0,1,2: Thin Material Vertical Burning Test

94HBF,94HF-1,2 : Horizontal Burning Foamed Material Test

IEC 60695-11-10: Fire hazard testing - Part 11-10: Test flames - 50 W horizontal and vertical flame test methods

IEC 60695-11-20: Fire hazard testing - Part 11-20: Test flames - 500 W flame test methods

IEC 60695-11-4: Fire hazard testing - Part 11-4: Test flames - 50 W flames-Apparatus and conformational test method

IEC 60695-11-3: Fire hazard testing - Part 11-3: Test flames - 500 W flames-Apparatus and conformational test method

## Technical parameters

Kinds	500W(5V class )	50W(HB/Vclass)
Test Flame	500W(burning test for V-0,V-1,V-2 classification)	50W(burning test for V-0,V-1,V-2 classification)
Burner Tube	Internal diameter: $\Phi$ 9.5mm $\pm$ 0.3mm	Internal diameter: $\Phi$ 9.5mm $\pm$ 0.3mm,
Burning Angle	0°,20°,45°	0°,20°,45°
Thermocouple	Type K (Ni/Cr - Ni/Al)	Type K (Ni/Cr - Ni/Al)
Thermocouple Size	0.5 mm	0.5 mm
Standard Copper Block	9mm $\pm$ 0.01mm, weight:10g $\pm$ 0.05g before drilling.	5.5mm $\pm$ 0.01mm, weight:76g $\pm$ 0.01g before drilling.
Time for Temperature to Increase	From 100°C $\pm$ 5°C to 700°C $\pm$ 3°C; 54s $\pm$ 2s (preset)	From 100°C $\pm$ 5°C to 700°C $\pm$ 3°C; 44s $\pm$ 2s (preset)
Gas Flow	965 $\pm$ 32ml/min	105 $\pm$ 10ml/min
Gas Supply	methane,min.98% purity	methane,min.98% purity
Water-column	125m $\pm$ 5mm	<10mm
Test Time	54 $\pm$ 2s	44 $\pm$ 2s
Flame Height Indicator	40 $\pm$ 1mm	20 $\pm$ 1mm
Volume Of Chamber	>0.5m <sup>3</sup> , black interior	>0.5m <sup>3</sup> , black interior
Conform to standard	UL94,IEC60695-11-3,IEC60695-11-20	UL94,IEC60695-11-4,IEC60695-11-10