

ED01 – TESTS FOR FLAMMABILITY OF PLASTIC MATERIALS – UL 94
TECHNICAL DATASHEET

The method described in the UL 94 standard involves standard size specimens and are intended to be used solely to measure and describe the flammability properties of materials, used in devices and appliances, in response to heat and flame under controlled laboratory conditions. The actual response to heat and flame of materials depends upon size and form, and also on the end-use of the product using the material. Assessment of other important characteristics in the end-use application includes, but is not limited to, factors such as ease of ignition, burning rate, flame spread, fuel contribution, intensity of burning, and products of combustion.

The final acceptance of the material is dependent upon its use in complete equipment that conforms with the standards applicable to such equipment. The flammability classification required of a material is dependent upon the equipment or device involved and the particular use of the material.



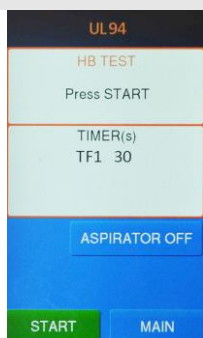
The bench-model test chamber can be used to perform the following flammability tests:

- 94HB (ASTM D 635, ISO 1210)
- 94 V-0 V-1-V-2 (ASTM D 3801, IEC 60695-11-10)
- 94 5 V, 5VA - 5VB (ASTM D 5048, ISO 9772 IEC 60695 11-20)
- VTM-0-1-2 (ASTM D 4804, ISO 9773)
- HBF – HF 1-2 (ASTM D 4986, ISO 9772)

- Horizontal test
- Vertical test 20 mm flame
- Vertical test 125 mm flame
- Vertical test for non stiff materials
- Horizontal test for foamed polymeric materials

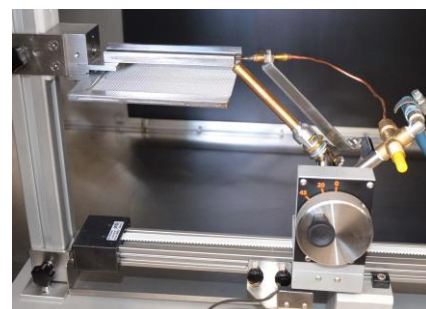
Technical features:

• Bench-model test chamber with front doors to open for inspection and cleaning.	• internally has a black background
• Electro aspirator for fume exhaust after the test – outlet dia.100 mm	• Methane gas feeding panel complete with flow meter with adjusting tap and pressure gauge.
• Slide for flame position adjustment regulated from the outside	• Standards-compliant sample holder with sample position adjustment
Cabin dimensions: volume 1 cu.m. (1200 x 800 x 1100 h mm) Overall dimensions : 1200 x 800 x 1600 h mm Package dimensions : 1300 x 900 x 1800 h mm Net Weight : 95 Kg	• Touch Screen control panel for: - Timing of flame application to detect post-combustion time and flame ignition - Flame temperature reading

Supply:


50 watt Test

- Burner according to ASTM D 5025
- two thermocouples with copper block (5mm/9mm)
- Adjustment °of burner joints and clamps
- 20 mesh stainless steel wire gauze, approx. 125 mm²
- Support for soft specimens
- 12.7 mm Ø. Mandrel for specimen winding


Accessories:

Code	Description
10095403	UL 94 test chamber with accessories
10101104	Kit for tests according to HBF standard

HBF kit Optional kit for tests according to HBF standard including:

- 1 6.4-mesh, 215x75 mm, stainless steel wire gauze, right angle bent
- 1 48-mm choke for Bunsen

