

UL 94 – Test Device for Assessing the Flammability of Plastics for Parts in Devices and Appliances

Measurement method	Test device for assessing the flammability of plastics for parts in devices and appliances in accordance with ISO UL94 5. Edition, DIN EN 60695 Part 11-10, DIN EN 60695 Part 11-20, DIN EN 60695 Part 11- 3, DIN EN 60695 Part 11-4, ISO 9772 and ISO 9773
Sample dimensions	<ul style="list-style-type: none"> ▪ Rod-shaped samples (L x W): 125.0 mm ± 5.0 mm x 13.0 mm ±0.5 mm (D) preferred values: 0.1/0.2/0.4/0.75/1.5/3.0/6.0/12.0 mm or typical use ▪ Plate-shaped samples (L x w): ≥150 mm ±5 mm x 150 mm ±5 mm (D) preferred values: 0.75/1.5/3.0/6.0/12.0 mm or typical use
Sample holder	Sample holder for horizontal and verticals tests with sample support, thermocouple holder and wire grid
Burner	<ul style="list-style-type: none"> ▪ Vertical, with adjustable tilt angle (20° and 45°) to the vertical axis with valve for fine adjustment of the flame ▪ Burner power selectable 50 W/500 W
Exhaust fan	Axial fan with electronically controlled butterfly valve, exhaust speed 0.7 m/s ±0.1 m/s
Measuring and control unit	<ul style="list-style-type: none"> ▪ Single Board Computer with 32 GB data storage ▪ 24 bit Sigma Delta ADC integrating cold junction compensation
Operation/display Touch screen	<ul style="list-style-type: none"> ▪ 10", 1280 x 800 capacitive touch screen (IP65) ▪ Display of the flame temperature °C ▪ Flow rate of methane in ml/min ▪ Automated calibration
Software	SBC, Windows 10 IoT, UL94_SBC
Interfaces	1x USB, 1x Ethernet
Complete Setup	<ul style="list-style-type: none"> ▪ Test chamber with exhaust fan ▪ 2 glazed doors with openings for manual access ▪ Maintenance door
Operating conditions	Temperature 25°C ±10 K, relative humidity 40% – 75%
Dimensions (W x D x H)	138 cm x 64 cm x 94 cm
Weight	126.0 (154.0) kg
Power supply	110-230 V /50/60 Hz, max. 350 W

* Gas to be provided by the user