



innovative solutions

Flammability Test Apparatus

As per UL - 94 (Vertical / Horizontal Burning)

SSI: 549 ULMM (Microprocessor Timer with Manual Motorized Burner Movement)

CE An ISO 9001:2008 Company
GMP compliant

The UL test serves as a preliminary indication of a plastics material acceptability for use as part of a device or appliance with respect to its flammability. This test uses specimen which is held at one end in the vertical position (hanging) . A burner flame is applied to the free end of the specimen for two intervals separated by the time it takes for flaming combustion to cease after the first application. Two sets of 5 specimens are tested. The following are recorded for each specimen:

Duration of flaming combustion after the first burner flame application.
Duration of flaming combustion after second burner flame application.
Duration of glowing combustion after second burner flame application.
Whether or not flaming drips ignite cotton placed below specimen.
Whether or not specimen burns up to holding clamp.

The Instrument consist of the following

- ✚ A Double Walled Chamber for sample burning with front glass door
- ✚ A Burner settable at anywhere **between 0- 90° angle** and precise gas control system including gas regulator
- ✚ Manual Motorized Burner Movement
- ✚ Sample Holding System (adjustable both vertically and horizontally)
- ✚ Digital Timer for flame application (can be preset for 1 to 99 sec)
- ✚ Digital timer for flame observation after flame is removed. The timer starts automatically once the flame application time is up
- ✚ Digit timer for Glow observation after the flame is extinguished
- ✚ Exhaust Fan / Light in the chamber



(Actual instrument may differ from the photograph due to regular improvements)

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Basic Design

- As per UL 94
- Inner Chamber Stainless Steel 1m x 1m x 1m (LBH), Volume 1 m³
- Burner 100 mm length 9.5 mm ID
- Burner Movement through a motor driven worm
- Manual Movement to adjust the burner position with respect to sample

Timer System:

- Flame Application Time : Pre settable from 1 to 99 Seconds
- Flame Away time : Pre Settable from form 1 to 99 Seconds
- Cycles : Pre Settable from 1 to 9

Operations

- Adjust the burner position with respect to sample using manual burner movement.
- Manually Ignite the burner
- Set the test parameters
- Start the process. There will be a beep indicating to move the burner. When the burner reaches the sample, the timer will start.
- After Flame application time, there will another beep indicating the operator to move away the burner.
- After required no of cycles, the burner is automatically shut off with a beep
- The Timer for After Flame is switched On automatically. After user Hold this timer, Glow timer is switched On.

