

TXL-YAN-003 / 27 October 2026 · One-year manufacturer warranty

Horizontal Flammability Tester

Horizontal burning rate. Automotive upholstery and plastics. Fully complying with fire safety regulations, it analyzes the flammability and burning behavior of materials with the highest precision. Equipped with superior safety features.



Model technical data

1	It is designed stainless steel cabinet with observation window, sample holder and burner.
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Physical specifications and utilities

Electrical supply	Approx. 220–240 V AC, 50/60 Hz, single phase; build-dependent.
Power / connected load	Approx. 20–100 W connected load for preliminary planning.
Overall instrument dimensions	Approx. 600 × 400 × 600 mm (W × D × H).
Instrument weight	Approx. 20–40 kg net.
Gross / shipping weight	Approx. 32–60 kg gross; estimated packing allowance.
Lab requirements	Method-specified test gas, regulator and exhaust / fume hood; gas type and flow follow the selected method and burner.

Dimension order and approximate values are stated in each row. Packaging data are separate from instrument dimensions and net mass. Approx. rows are preliminary engineering estimates based on comparable equipment and function/capacity; they are not verified manufacturing measurements or standard requirements. Installation and shipment are finalised against the approved drawing and nameplate. Estimate scope: base product / one unit; external computer, bench and auxiliary plant excluded.

Specifications, dimensions, and power requirements are approximate and subject to change without prior notice for continuous design improvements.

Product technical specifications and images may vary according to manufacturing conditions and applicable standards.

Test and configuration

Measured output / function	Horizontal burning rate (mm/min) and extinction behaviour
Parameters selected for the method	Horizontal holder, gauge marks, burner and flame duration
Verification points	Burner/gas flow, geometry and timing

Control and recording specification

Method-specific software and recording requirements follow. Delivered software modules are defined by the order scope.

- Method code and edition, specimen ID, operator and selected test parameters are linked to the record.
- The calculation and endpoint are defined by the selected method edition; instrument signals and operator assessments are kept distinct.
- Raw measurements, units, valid/invalid test flags and the reported result remain traceable.
- Calculations are checked against known inputs and an independent calculation; sensor channels are checked against calibration values.

Related test methods

ASTM D5132 · FMVSS 302

Listed methods are application references. Suitability is established by assessing hardware, method edition and calibration together.

Test parameters for the reviewed method

The values below were reviewed in selected clauses of the stated source edition. They are not a declaration of equivalence to a later edition or independent instrument verification.

49 CFR 571.302 / eCFR 20.10.2026 / S5.1.1, S5.1.3-S5.3

1	Cabinet internal dimensions 381 × 203 × 356 mm; U-frame opening 51 × 330 mm; burner bore 10 mm and flame height 38 mm. Flame application 15 s; burning rate is 60 × distance(mm)/time(s).
ASTM D5132-04 / 6.1, 10.4–10.8, 11; Figures 1, 5–7	
1	2004 edition: U-holder opening 50 × 330 mm; burner 19 ± 1 mm below specimen underside. Flame height 38 ± 2 mm, application 15 s. Read time to 0.1 s and length to 1 mm. Methane/natural gas with approximately 20 kPa regulated supply; operate extraction as this method specifies.
2	Burning rate $B = 60D/T$, mm/min; record actual burned distance D and time T. These are 2004 clauses; equivalence to current ASTM D5132-25 or full-standard conformity is not verified.