

TXL-YAN-004 / 27 October 2026 · One-year manufacturer warranty

NFPA 701 Flame Propagation Tester

Flame propagation for curtains, textiles and films. 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	Suitable for fabrics with a mass below 700 g/m ² (21 oz/yd ²).
---	---

Physical specifications and utilities

Electrical supply	Approx. 220–240 V AC, 50/60 Hz, single phase; build-dependent.
Power / connected load	Approx. 100–400 W connected load for preliminary planning.
Overall instrument dimensions	Approx. 1100 × 900 × 2500 mm (W × D × H).
Instrument weight	Approx. 100–180 kg net.
Gross / shipping weight	Approx. 135–250 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	Flame propagation assessment using the selected NFPA 701 method
Parameters selected for the method	Method 1/2, material type and mass per unit area
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

NFPA 701

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.

NFPA 701:2004 / 5.6-5.7, 6.1, 7.1, 8.3

1	Method 1 uses ten specimens, 150 ± 5 × 400 ± 5 mm; methane flow 1205 ± 35 mL/min, flame 100 ± 10 mm and exposure 45 ± 1 s. Method 2 for heavier/coated materials has a different setup; these values apply to small-scale Method 1.
---	---