

TXL-YAN-011 / 27 October 2026 · One-year manufacturer warranty

NF P 92-504 Flame Persistency and Propagation Tester

Performs complementary flame persistency and flame propagation tests used in the M classification of building and fitting materials. Suitable for flexible and rigid materials.



Model technical data

1	Flame persistence and spread
2	Method-specific specimen setup, burner and timing

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. 750 × 500 × 750 mm (W × D × H); base apparatus, separate hood excluded.
Instrument weight	Approx. 20–40 kg net.
Gross / shipping weight	Approx. 32–60 kg gross; estimated packing allowance.
Lab requirements	NF P92-504: propane 10–50 kPa; separate glazed hood ≥1 m³ and air velocity <0.2 m/s at specimen. Hood external dimensions, fan load and mass are excluded from base-apparatus estimates.

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 persistence and spread
Parameters selected for the method	Method-specific specimen setup, burner and timing
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

NF P92-504

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.

NF P92-504:1995-12 / 1–8, Figures 1–5; apparatus 4; procedure 6; calculation 7

1	Method-specific propane burner, supply 10–50 kPa; flame height 20 mm, burner angle 45°. Tilt/presentation timing accuracy 0.1 s; tilt transition 0.1–0.2 s. Separate glazed hood volume ≥1 m³ and air velocity around specimen <0.2 m/s.
2	Flame persistence: 5 s contact, reapply 3 s after extinction; observe approximately 10 applications per specimen and 30 total. Propagation marks 250 mm apart; V = 250/t, mm/s. Record application count, afterflame, dripping and propagation time separately.