

TXL-KMS-051 / 28 October 2026 · One-year manufacturer warranty

Pneumatic Bursting Strength Tester (K012-P)

Pneumatic measurement of bursting strength, bursting height and time to burst for woven, knitted, nonwoven and flexible sheet materials. 0.2–1000 kPa pressure range, 0.2 kPa resolution, ±0.5% FS accuracy, adjustable 0.1–100 kPa/s pressure rise; bursting height 0.1–70 mm with a contact distance rod. Automatic diaphragm correction and burst detection; 7.1 / 7.3 / 7.8 / 10 / 50 / 100 cm² test areas; transparent guard with sensor, two-hand control, emergency stop and Ethernet data transfer.



Model technical data

1	Pressure range: 0.2–1000.0 kPa; maximum test pressure 10 bar.
2	Pressure resolution: 0.2 kPa; pressure accuracy: ±0.5% FS.
3	Pressure rise rate: 0.1–100.0 kPa/s, adjustable.
4	Bursting height: 0.1–70.0 mm, contact distance rod; resolution 0.1 mm.
5	Test areas: 7.1, 7.3, 7.8, 10, 50 and 100 cm².
6	Test control: automatic diaphragm correction, burst detection and adjustable pressure-rise control.
7	Results: bursting strength, bursting height and time to burst.
8	Safety: transparent guard with sensor, two-hand control and emergency stop.
9	Computer connection: Ethernet; test data transfer to a computer.
10	Air supply: 6–10 bar, dry and filtered.
11	Electrical supply: 220 V AC, 50 Hz.

Physical specifications and utilities

Electrical supply	Electrical supply: 220 V AC, 50 Hz.
Power / connected load	Approx. 150–400 W connected load for preliminary planning.
Overall instrument dimensions	Approx. 650 × 600 × 750 mm (W × D × H).
Instrument weight	Approx. 60–100 kg net.
Gross / shipping weight	Approx. 85–140 kg gross; estimated packing allowance.
Compressed air	Compressed air: 6–10 bar, dry and filtered.
Interfaces	Ethernet; test data transfer to a computer.
Lab requirements	Dry, filtered compressed-air line (6–10 bar, manufacturer data); level, rigid bench.

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	Pneumatic bursting pressure (kPa), bursting height (mm) and time
Parameters selected for the method	Test area, pressure rise rate and diaphragm correction
Verification points	Pressure, height measurement and diaphragm correction

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.
- Bursting pressure, diaphragm correction, bursting height and time to burst are stored separately; the selected test area is recorded.
- 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

ISO 13938-2 · ASTM D3786

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