

TXL-KMS-005 / 27 October 2026 · One-year manufacturer warranty

Ball Bursting Strength Tester (K012B)

Determines fabric bursting strength by forcing a steel ball through the specimen. Supplied with a 25.4 mm ball, 44.45 mm test head and USB connection.



Model technical data

1	Ball bursting strength test method.
2	Standard 25.4 mm diameter polished steel ball and 44.45 mm diameter test head.
3	Other ball sizes and test heads are available as options.
4	USB communication port supplied as standard.
5	Computer, printer and application software are optional.

Physical specifications and utilities

Electrical supply	Approx. 220–240 V AC, 50/60 Hz, single phase; build-dependent.
Power / connected load	Approx. 200–600 W connected load for preliminary planning.
Overall instrument dimensions	Approx. 600 × 600 × 1500 mm (W × D × H).
Instrument weight	Approx. 60–110 kg net.
Gross / shipping weight	Approx. 91–162.5 kg gross; estimated packing allowance.
Interfaces	USB communication port supplied as standard.
Lab requirements	Level, stable working surface; specimen conditioning follows the selected method.

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	Ball burst force (N)
Parameters selected for the method	Ball diameter, aperture, specimen clamping and speed
Verification points	Load cell, ball and holder geometry

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.
- Peak force is reported in N; it is not confused with diaphragm burst pressure in kPa.
- 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 D3787 · ASTM D6797 · ISO 3303-1 · ISO 9073-5

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.

ASTM D3787 (earlier edition) / 6 / 10

1	Ball-burst method: ball diameter 25.400 ± 0.005 mm; ring inside diameter 44.450 ± 0.025 mm; pulling speed 305 ± 13 mm/min.
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ASTM D6797-02 / 6.2.1, 9

1	CRE ball burst: ball diameter 25.400 ± 0.005 mm; ring bore 44.450 ± 0.025 mm; speed 305 ± 13 mm/min. Separate rounding rules apply to individual and mean results.
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ISO 3303-1:2020 / 5.1-5.2

1	Coated-fabric ball-burst fixture: steel ball 25.20 ± 0.02 mm, clamping-ring internal diameter 45 ± 0.5 mm; ISO 7500-1 class 2 force system. Report use of the alternative 38 ± 0.02 mm ball; results are not directly comparable.
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ISO 9073-5:2008 / 5.1-5.4

1	Nonwoven ball burst: steel ball 25.400 ± 0.005 mm, ring bore 44.500 ± 0.025 mm; CRT machine converted to compression mode. These tolerances differ from the ISO 3303-1 coated-fabric kit; select the corresponding ball/ring set separately.
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