

TXL-KMS-024 / 27 October 2026 · One-year manufacturer warranty

Fabric Stiffness Tester

Fabric stiffness and handle by pneumatic principle.



Model technical data

1	Evaluates fabric stiffness by the pneumatic circular bend method.
2	Provides peak-value hold.
3	Operates with a compressed-air supply.

Physical specifications and utilities

Electrical supply	Manual / passive base apparatus; no mains supply assumed.
Power / connected load	Approx. 0 W connected load for preliminary planning.
Overall instrument dimensions	Approx. 500 × 200 × 300 mm (W × D × H).
Instrument weight	Approx. 3–7 kg net.
Gross / shipping weight	Approx. 5.3–10.8 kg gross; estimated packing allowance.
Compressed air	Operates with a compressed-air supply.
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	Peak force during circular bending (N)
Parameters selected for the method	Plunger/orifice geometry, specimen layers and speed
Verification points	Force sensor, fixture geometry and speed

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 D4032

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 D4032-94 / 6.1.1-6.1.4

1	Circular-bend fixture: platform orifice 38.1 mm, plunger 25.4 mm, initial clearance 3 mm and downward stroke 57 mm. Peak force is recorded; actuation may be manual or pneumatic.
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