

TXL-KMS-049 / 27 October 2026 · One-year manufacturer warranty

Fusible Interlining Bond Strength Tester (TL-FIT 500N)

Measures the force required to separate fusible interlining from fabric. Controlled peel testing for shirt collars and cuffs, jacket fronts and bonded fabric layers. 500 N, 1–500 mm/min.



Model technical data

1	Measures the force required to separate fusible interlining from fabric (bond / peel strength).
2	Maximum force capacity: 500 N.
3	Travel: 500 mm (excluding grips).
4	Test speed: 1–500 mm/min, adjustable.
5	4.3-inch touchscreen HMI with up / down positioning controls.
6	Manual mechanical grips.
7	Load cell calibration error limit: $\pm 0.005\%$ F.S. (± 0.025 N).
8	Ethernet connection and PC 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. 100–300 W connected load for preliminary planning.
Overall instrument dimensions	Approx. 450 × 450 × 1200 mm (W × D × H).
Instrument weight	Approx. 35–65 kg net.
Gross / shipping weight	Approx. 63.5–106.2 kg gross; estimated packing allowance.
Interfaces	Ethernet connection and PC application software are optional.
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	Bond/peel force (N or N per unit width)
Parameters selected for the method	Specimen width, peel angle, speed and pretreatment
Verification points	Force, speed, grips and alignment

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 D2724 · AATCC 136 · FZ/T 80007.1

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.

AATCC 136-2009 / 6.10, 11.2

1	Bond-strength stage: specimen options 25 × 152 or 76 × 152 mm; separation speed 305 ± 13 mm/min. Record mean peel force and foam tear separately; provide laundering/dry-cleaning pretreatments separately.
---	---

ASTM D2724-03 / 6.10

1	For the tensile subtest of bonded/laminated apparel fabrics, clamp width is 76.2 mm and CRE is preferred. This edition prefers a 0–4.5 kgf indicating range. Record separation setup and force range; drycleaning and laundering are separate preparations.
---	---

FZ/T 80007.1:2006 / 4.1-4.2, 7.1

1	Interlining peel test: force accuracy ±1%, jaw width at least 30 mm, initial separation 50 mm and speed 100 ± 5 mm/min. These clauses were reviewed in the publisher's partial English translation; calculation and reporting clauses are absent from this copy.
---	--