

TexLab Instruments

Product Catalogue

Textile and materials laboratory testing equipment made in Istanbul

154

instruments

12

categories

295

test standards

29

years
manufacturing

About us

TexLab Instruments builds testing equipment for textile and materials laboratories in its own Istanbul workshop — from the machined chassis and the electrical panel to the control software and final calibration.

We have been manufacturing for 29 years and sell directly, with no intermediaries: 16 countries from South and Southeast Asia to Russia and the CIS, plus the European Union.

Instruments are CE marked; the manufacturer is ISO 9001, ISO 14001 and ISO 45001 certified. Every instrument carries a 1-year warranty; spare parts and technical service are provided from Istanbul.

Instrument prices are quoted on request.

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Fabric Testing Equipment

TXL-KMS-001

Fabric Tensile Strength Tester

Measures breaking force and elongation of fabrics and similar materials using an electronic load cell. Grips, load cell and capacity are selected for the test method.

- The maximum strength is 5 kN or 50 kN.
- The device has lengthening measurement features (with 0,01 mm precision).
- The device's measurement is electronic load cell.
- The movement length except for jaws is 1000mm.
- USB connection data output is standard.

NEXT TM 16 · ASTM D2212 · ISO 11644 · ASTM D2261 · ISO 13937-4 · ASTM D2724 · ISO 13937-3 · ASTM D5034 · ISO 5081 · ASTM D5587 · ISO 13937-2 · ASTM D5735 · ISO 4674-1 · ASTM D5035 · ISO 13934-1 · ISO 13934-2 · ISO 13935-1 · ASTM D5822 · EN 14704-1 · NEXT TM 36 · ISO 3376 · NEXT TM 27 · NEXT TM 25 · BS 3424-5



TXL-KMS-002

Crockmeter — Colour Fastness to Rubbing

Evaluates textile colour fastness after dry or wet rubbing. Staining of the rubbing cloth is assessed using the grey scale for staining. Manual and motor-driven models are available.

- Measures rubbing fastness by the colour change of the specimen and the staining of the accompanying fabric.
- Specimens are rubbed against dry, undyed cotton accompanying fabric.
- The staining ratio of the accompanying fabric is evaluated on the staining grey scale.
- The automatic model has a digital controller and a motor.

AATCC 8 · AATCC 165 · BS 1006 D02 · BS 4655 · ISO 105-X12 · ISO 105-D02 · M&S C8 · NEXT TM 6



TXL-KMS-003

Rotary Crockmeter

Rotary rubbing motion for printed fabrics. It provides reliable and precise results in compliance with international quality standards in laboratory environments. It features a long-lasting and user-friendly design.

- Measures rubbing fastness by the colour change of the specimen and the staining of the accompanying fabric.
- Specimens are rubbed against dry, undyed cotton accompanying fabric.
- The staining ratio of the accompanying fabric is evaluated on the staining grey scale.

ISO 105-X16 · AATCC 116



Fabric Testing Equipment

TXL-KMS-004

Elmendorf Tear Resistance Tester



Ballistic pendulum method for tear resistance. It provides reliable and precise results in compliance with international quality standards in laboratory environments. It features a long-lasting and user-friendly design.

- Ballistic tear test with microprocessor-controlled vertically moving pendulum.
- Force capacities: 800 cN (1.75 lb), 1600 cN (3.5 lb), 3200 cN (7.0 lb) and 6400 cN (14 lb).
- Measuring units: mN, cN, N, g, kg, oz and lb.
- Instant results and statistical evaluation on the LCD display.
- USB computer data output is standard.

ASTM D1424 · ASTM D5734 · ASTM D689 · BS 4253 · BS 4468 · ISO 13937-1 · DIN 53128 · DIN 53862 · ISO 1974 · ISO 4674-2 · ISO 9073-4 · ISO 9290 · M&S P29 · NF 609-149

TXL-KMS-005

Ball Bursting Strength Tester (K012B)



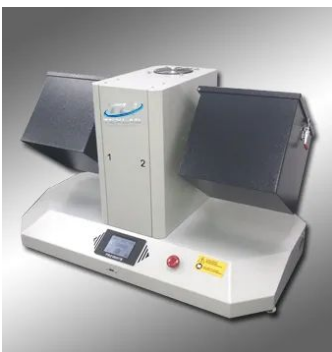
Determines fabric bursting strength by forcing a steel ball through the specimen. Supplied with a 25.4 mm ball, 44.45 mm test head and USB connection.

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

ASTM D3787 · ASTM D6797 · ISO 3303-1 · ISO 9073-5

TXL-KMS-006

ICI Pilling Box Tester



Pilling and snagging under simulated wear. 2-box. It provides reliable and precise results in compliance with international quality standards in laboratory environments. It features a long-lasting and user-friendly design.

- Rotation speed: 30 rpm $\pm$ 1 or 60 rpm $\pm$ 1.
- Number of boxes: 2 (4 optional).
- Data port: RS-232C.
- Timer range: 0–9999 minutes.
- Power supply: 220 V $\pm$ 10%, 50 Hz.

BS 5811 · ISO 12945-1 · NEXT TM 19

Fabric Testing Equipment

TXL-KMS-007

Martindale Abrasion & Pilling Tester

8-station Martindale motion. Combined abrasion and pilling test. Lissajous motion, auto revolution counter, standard load weights included. It provides reliable and precise results in compliance with international quality standards in laboratory environments. It features a long-lasting and user-friendly design.

- It has an electronic controller and upward plate has lifting system.
- USB communication port is available as standard.

ISO 12945-2 · ISO 5470-1 · ASTM D4966 · ISO 12947-1 · ISO 12947-2 · ISO 12947-3 · ISO 12947-4 · ASTM D4970



TXL-KMS-008

Air Permeability Tester

Digital, automatic pressure regulation air permeability. It provides reliable and precise results in compliance with international quality standards in laboratory environments. It features a long-lasting and user-friendly design.

- Pressure difference: adjustable between 0 and 2500 Pa.
- Measuring units: results can be displayed in dm^3/min , $\text{l/m}^2/\text{s}$ and similar units.
- Automatic digital control system with touch screen.
- Supplied as standard with a 20 cm^2 test head; heads of other areas are available as options.
- User-defined test profiles allow customised standards to be added.

ASTM D3574 · ASTM D737 · BS 5636 · DIN 53887 · ISO 9237



TXL-KMS-009

Hydrostatic Water Resistance Tester

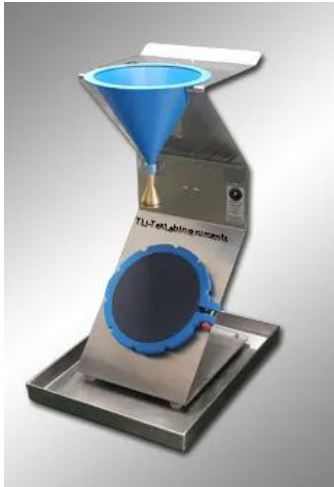
Fabric resistance to water penetration under hydrostatic pressure. It provides reliable and precise results in compliance with international quality standards in laboratory environments. It features a long-lasting and user-friendly design.

- the speed of pressure increase and the unit of measurement can be changed on the touch screen.
- The sample area is 100 cm^2 . According to different standards, the sample area can be ordered in different sizes.

ISO 811 · AATCC 127



Fabric Testing Equipment



TXL-KMS-010

Spray Rating Tester

Surface wetting resistance of fabrics. It provides reliable and precise results in compliance with international quality standards in laboratory environments. It features a long-lasting and user-friendly design.

- Determines the resistance of water-repellent treated fabrics to water and wetting by the spray method.
 - A defined volume of distilled or fully deionised water is sprayed onto the specimen from a set distance.
 - The wetting grade is determined by comparing the specimen with the defined standard images.
- AATCC 22 · ISO 4920



TXL-KMS-011

Bundemann Water Repellency Tester

Water repellency under simulated rain conditions. It provides reliable and precise results in compliance with international quality standards in laboratory environments. It features a long-lasting and user-friendly design.

- It consists of 4 specimen holders of 100mm diameter cups.
 - Rain is produced by 300 pieces nozzle and falls down from 1500 mm height from the fabrics.
- ISO 9865



TXL-KMS-012

Water Vapour Permeability Tester (MVTR)

An eight-cup instrument for evaluating water vapour permeability of textiles, particularly clothing fabrics. Includes water containers, specimen holder rings and a reference fabric arrangement.

- Device has 8 water tank containers, a standard leakage fabric case, sample holder rings and a definite value operating system.
- BS 7209 · BS 3424

Fabric Testing Equipment

TXL-KMS-013

Perspiration Fastness Tester

Colour fastness in acid and alkaline perspiration. It provides reliable and precise results in compliance with international quality standards in laboratory environments. It features a long-lasting and user-friendly design.

- The single unit sweat precision testing device includes a stainless steel trunk and 21 acrylic separation plates of 115 x 60 mm.
- 20 samples generally of 100 x 40 mm size are inserted between the plates under a load of 5 kg plates.

ISO 105-E04 · AATCC 15



TXL-KMS-014

Iron Fastness Tester

Colour fastness simulation under ironing at different temperatures. 210 × 210 mm upper and lower heating plates (800 W each), 20–220 °C, 4.3-inch touchscreen, 220 V AC.

- Heating plates: 210 × 210 mm, upper and lower.
- Heater power: 800 W each for upper and lower plate.
- Temperature range: 20–220 °C.
- Control: 4.3-inch touchscreen.
- Supply: 220 V AC.

ISO 105-X11 · AATCC 133



TXL-KMS-015

Crease Recovery Tester

Wrinkle recovery angle measurement of fabrics. It provides reliable and precise results in compliance with international quality standards in laboratory environments. It features a long-lasting and user-friendly design.

- Measures the folding recovery angle of the fabric.
- The angle formed after the pressure applied to the folded fabric is released is measured according to the standards.

ISO 2313 · AATCC 66 · ISO 2313-1



Fabric Testing Equipment

TXL-KMS-016

Wrinkle Recovery Tester



Appearance retention and wrinkle recovery. It provides reliable and precise results in compliance with international quality standards in laboratory environments. It features a long-lasting and user-friendly design.

- These given with device 2,0kg 1,0kg (one piece) and 0,5 (two pieces).
- AATCC 128 · ISO 9867

TXL-KMS-017

Digital Fabric Thickness Gauge (Benchtop)



Thickness gauge for textile, felt, leather and paper. It provides reliable and precise results in compliance with international quality standards in laboratory environments. It features a long-lasting and user-friendly design.

- Thickness Measurement accuracy is 0,01 mm.
- Thickness Measurement 0.01 to 50 mm.
- Pressure feet of 5 cm², 10 cm² and 20 cm² can be supplied as an optionally.
- Device has a presser foot 50.5 mm.
- It has a touchscreen controller.

ISO 5084 · ASTM D1777

TXL-KMS-018

Digital Fabric Thickness Gauge (Portable)



Portable digital thickness gauge with adjustable pressure. It provides reliable and precise results in compliance with international quality standards in laboratory environments. It features a long-lasting and user-friendly design.

- For its technical features , it has a depth jaw of about 120 mm and a measuring 0 to 10 mm .For its resolution, it has a rating of 0,01 mm. It has a lifting tool.

ISO 5084 · ASTM D1777

Fabric Testing Equipment

TXL-KMS-020

Fabric GSM Calculation Kit



GSM kit with circular cutter and precision balance. It provides reliable and precise results in compliance with international quality standards in laboratory environments. It features a long-lasting and user-friendly design.

- Standard kit: 100 cm² circular sample cutter, digital balance, cutting pads and spare blades.
- Other cutting areas are separate model options.

ISO 3801 · ASTM D3776

TXL-KMS-021

Button & Snap Pull-Off Tester



Determines the holding strength between a button or snap and the fabric or garment; the result is read directly on the gauge in kg or N. Measures the pull-off and breaking strength of buttons, snaps, zips and metal accessories on garments. Interchangeable grips adapt it to different accessories.

- Ergonomic construction, user-friendly; interchangeable grips and clamps for different accessories.
- The result is read directly on the gauge in kg or N.
- Two models: 200 N analogue manual and 300 N automatic with touch panel.
- The 200 N model has an analogue dynamometer indicator; units in N or kg.
- The 300 N model has a 3.5" colour touch screen; units in cN, grF, N and kgF.

EN 12718 · ISO 8096 · ISO 8124 · M&S P115 · 16 CFR 1500 · EN 71-1

TXL-KMS-022

Zipper Endurance Tester



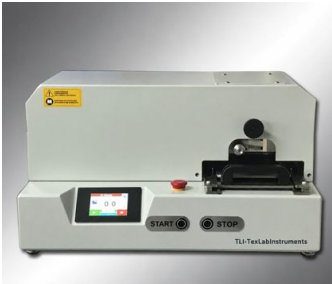
Zip fastener opening/closing cycle endurance test. It provides reliable and precise results in compliance with international quality standards in laboratory environments. It features a long-lasting and user-friendly design.

EN 16732

Fabric Testing Equipment

TXL-KMS-023

Cut Resistance Tester



Evaluates the cut resistance of gloves and protective materials with a rotating circular blade. The blade travels back and forth over the specimen and the number of cycles to cut-through is recorded.

- The rotary circular knife moves 50 mm on above the test sample under 5 N pressure.
- The device has a rotating circular blade with a diameter of 45 ± 0.5 mm and a thickness of 3 ± 0.3 mm.
- The force applied by the blade to the fabric is 5 ± 0.05 N.
- There is a digital counter on the device that can measure the number of cycles required to disconnect the test sample.

EN 388

TXL-KMS-024

Fabric Stiffness Tester



Fabric stiffness and handle by pneumatic principle. It provides reliable and precise results in compliance with international quality standards in laboratory environments. It features a long-lasting and user-friendly design.

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

ASTM D4032

TXL-KMS-025

Fabric Drape Tester



Drape coefficient measurement of fabrics. It provides reliable and precise results in compliance with international quality standards in laboratory environments. It features a long-lasting and user-friendly design.

- The drape coefficient is calculated by digitally scanning the shadow of the fabric.
- Computer controlled; the software is supplied with the instrument.

ISO 9073-9

Fabric Testing Equipment

TXL-KMS-026

Fabric pH Meter



Prepares textile specimen extracts for pH measurement. Used in sample preparation before and after dyeing; the pH reading is obtained with a suitable pH measuring system.

- Temperature range can be adjusted between the ambient temperature and 95 °C.
- Sample measurement space is 52 cm².
- USB communication port is available as standard.
- The results of the process can be output via the printer or also stored in the computer environment at the same time.

ISO 3071 · AATCC 81

TXL-KMS-027

Digital Textile Microscope with Camera



High-resolution microscope for surface and structural analysis. It provides reliable and precise results in compliance with international quality standards in laboratory environments. It features a long-lasting and user-friendly design.

- Designed for microscopic examination and classification of textile fibres, yarns and fabrics.

ISO 137

TXL-KMS-028

UV Test Cabinet



Enclosed viewing cabinet for UV exposure testing. It provides reliable and precise results in compliance with international quality standards in laboratory environments. It features a long-lasting and user-friendly design.

- Irradiation options: D65 (25,000 lux), UVA+ (20 mW/cm²), UV-A (10 mW/cm²), UV-B (5 mW/cm²), UV-C (12 mW/cm²).
- Power consumption: 800 W for the UVA+ lamp group; 400 W for the D65, UV-A, UV-B and UV-C lamp groups.
- 20 lamps in total; all lamp groups use electronic ignition.
- Working area: 90 x 65 x 30 cm.
- Specimen chamber temperature adjustable between 20 and 35 °C.

ISO 4892 · ASTM D1148

Fabric Testing Equipment

TXL-KMS-029

Sample Drying Oven (Hanging)



Hanging sample drying oven for fabrics. It provides reliable and precise results in compliance with international quality standards in laboratory environments. It features a long-lasting and user-friendly design.

- 4 stainless steel hanger shelves of 600 mm x 450 mm are also included.

ISO 139

TXL-KMS-030

Fabric Extensometer



A mechanical extensometer for evaluating fabric extension under load and recovery after unloading. Supplied with a specimen marking template and marking pen.

- Used to determine the recovery of fabrics after tension.
- Supplied with a marking template and marking pen.

BS 4294 · EN 14704-1 · EN 14704-2

TXL-KMS-031

Light Fastness Tester (Xenon Arc)



Determination of colour fastness under artificial daylight (D65) using a filtered xenon arc lamp. Used for textiles as well as plastics, paper, leather and coatings; it simulates UV and visible solar radiation more closely than any other artificial light source. Accelerated weathering includes a simulated rain cycle that introduces thermal shock to the specimen. Touch screen panel, chamber viewing window and USB interface are supplied as standard.

- Lamp: 2000 W air-cooled xenon.
- Irradiance (300-400 nm): 40-50 W/m².
- Sample: 6 position / 18 sample holder.
- Average lamp life time: 2000 h.
- Test chamber humidity range: ambient - 55% RH.

ISO 105-B02 · ISO 105-B04 · ISO 105-B07 · ISO 4892-1 · ASTM D6695 · ASTM G151 · ASTM G155 · EN 15187 · AATCC 16 · AATCC 169 · M&S C9 · M&S C9A · NF G07-012-2 · BS 1006 UK/TN

Fabric Testing Equipment

TXL-KMS-032

Pneumatic Fabric Stiffness Tester

Measures fabric stiffness pneumatically. It has a peak-hold feature at the maximum value and runs on standard compressed air.

- It has a peak-hold feature at the maximum value.
- The device runs on standard compressed air.

ASTM D4032



TXL-KMS-033

Light Fastness Tester (8 Station / 24 Specimen)

Determines the colour fastness of all kinds of textile materials, plastics, paper and similar products under artificial daylight. It is also used for white or optically brightened products. The specimen is exposed together with prepared blue wool and fastness is assessed against the reference wool. Test methods are selected on screen. The 8-station chamber holds 24 specimens.

- Light source: xenon arc, artificial light representing natural daylight.
- Determines the colour fastness of all kinds of textile materials, plastics and paper under artificial daylight.
- It is also used to test white or optically brightened products.
- 8-station chamber with 24 specimen holders.
- The specimen is exposed to artificial light together with prepared blue wool.

ISO 105-B02 · ISO 105-B04 · ISO 105-B07 · NF G07-012-2 · BS 1006 UK/TN · AATCC 16 · AATCC 169 · M&S C9 · M&S C9A · ASTM G155



TXL-KMS-034

Circular Sample Cutter

Circular sample cutter providing precise 100 cm² cutting, supplied as a set with one device support and four blades. Different cutting areas are available according to standard sizes.

- A circular sample cutting apparatus allowing precise 100 cm² cutting.
- Offered as a set with one device support and four blades.
- Different cutting areas are available according to standard sizes.

ISO 3801 · ASTM D3776 · EN 12127 · M&S P65 · NEXT TM 20



Fabric Testing Equipment

TXL-KMS-035

UV Test Box



Test cabinet that simulates colour and property change by exposing products such as plastics, paper and textiles to light. Testing is possible under D65 (25,000 lux), UVA+ (20 mW/cm²), UV-A (10 mW/cm²) and UV-B. Lamp service life can be monitored on the device.

- Simulates colour and property change by exposing plastics, paper and textile products to light.
- Testing is possible under D65 (25,000 lux), UVA+ (20 mW/cm²), UV-A (10 mW/cm²) and UV-B.
- The service life of the lamps can be monitored on the device.

ISO 4892 · ASTM D1148

TXL-KMS-036

Steaming Cylinder



Determines the shrinkage of stress-free fabric specimens subjected to steam in a closed chamber. It has an automatic timer, a stainless steel fabric support and four specimen injectors. Shrinkage percentage is determined from a 250 mm pre-test marking.

- Determines the shrinkage of stress-free fabric specimens subjected to steam in a closed chamber.
- It has an automatic timer, a stainless steel fabric support and four specimen injectors.
- The shrinkage percentage is determined by marking the fabric on a 250 mm bench before the test.

ISO 3005 · BS 4323 · M&S P8 · NEXT TM 15

TXL-KMS-037

Sewability Tester



Tests fabric sewability independently of sewing conditions or operator skill. It measures needle penetration force; the value is read in cN and can be converted to other units. USB data output is standard; PC software and printer are optional.

- Tests fabric sewability independently of sewing conditions or operator skill.
- Needle penetration force measurement is performed.
- The value is read in cN and can be converted to different units of measurement.
- USB data output is standard; PC software and printer are optional.

Fabric Testing Equipment

TXL-KMS-038

Fabric Stiffness Tester — Manual (Fixed Angle)

Determines the bending length, flexural rigidity and bending modulus of fabric by the fixed-angle (41.5°) inclined plane method. Fully manual operation; suitable for woven, laminated, pile, knitted and raised fabrics. Used to assess the stiffness of products such as blankets, airbag fabrics and protective clothing.

- Inclined plane angle: 41.5° fixed.
 - Scale resolution: 1 mm.
 - Fully manual operation.
 - Bending length, flexural rigidity and bending modulus are determined by simple operation and calculation.
 - Dimensions: approx. 350 × 150 × 210 mm.
- ISO 4604 · BS 3356

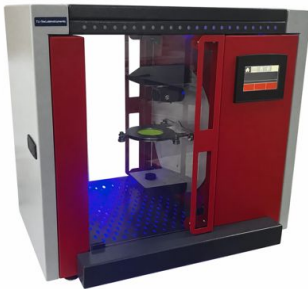


TXL-KMS-039

3D-MMD Fabric Liquid Moisture Transmission Measurement Device

Tracks liquid spreading on both fabric faces and drying behaviour through two-sided IR contrast imaging. Analyses changes in wet and dry regions over time; the method does not rely on temperature measurement.

- Method: non-contact IR contrast imaging.
- Simultaneous IR imaging of the upper and lower fabric faces.
- Adjustable specimen angle.
- Time-dependent wetting, spreading and drying analysis in software.
- Touchscreen control panel.



TXL-KMS-045

Stretch and Recovery Tester

Evaluates how far knitted and woven fabrics stretch under defined loads, their permanent set and how well they return to their original length after the load is removed. Used in product development and quality control of fabrics containing elastic yarn. The multi-station design tests several specimens at the same time; available as 3- and 6-station models, wall type or mobile (wheeled).

- Multi-station design: several specimens at once; 3- and 6-station models.
- Installation: wall mounted or wheeled mobile unit.
- Separate timing for each station (multi-function timers).
- For knitted and woven fabrics; evaluation of stretch, permanent set and recovery.
- Weight sets are chosen according to the method and request and priced separately (example set: 3 × 3 lb, 3 × 5 lb, 3 × 10 lb).

ASTM D2594 · ASTM D3107



Fabric Testing Equipment

TXL-KMS-046

Wyzenbeek Abrasion Tester (WY-4, 4 Cylinders)



Evaluates the abrasion resistance of upholstery fabrics and automotive interior trim textiles by the ASTM D4157 Wyzenbeek oscillatory cylinder method. Four physically separate abrading cylinders oscillate at the same speed and phase on a common shaft; specimen tension, normal force and abradant mounting are set individually at each station. Target and actual cycles are shown on the touchscreen HMI; the instrument stops at the target count and can be paused and resumed.

- Test stations: 4 separate abrading cylinders.
- Motion: synchronous oscillation on a common shaft.
- Specimen tension: adjusted individually at each station.
- Normal force: separate loading assembly at each station.
- Abradant mounting: separate clamping system on each cylinder.

ASTM D4157

TXL-KMS-047

Thermal and Water-Vapour Resistance Tester – Sweating Guarded Hotplate (RET-01A)



Measures thermal resistance (Rct) and water-vapour resistance (Ret) of textiles and textile-like flat materials by the ISO 11092 sweating guarded-hotplate method. 200 × 200 mm porous heated measuring plate, independent active guard and bottom thermal guard; integrated climate chamber (15–55 °C, 30–70% RH), horizontal airflow. Rct 0.002–2.000 m²·K/W, Ret 0–1000 m²·Pa/W; Windows-based software with automatic steady-state detection.

- Method: ISO 11092 sweating guarded-hotplate.
- Measured quantities: Rct thermal resistance; Ret water-vapour resistance.
- Rct range: 0.002–2.000 m²·K/W; Ret range: 0–1000 m²·Pa/W.
- Measuring area: 200 × 200 mm square plate; specimen min. 300 × 300 mm, thickness 0–50 mm (optional 70 mm).
- Climate chamber: 15–55 °C, 30–70% RH; horizontal, uniform airflow.

ISO 11092

TXL-KMS-048

Hydraulic Bursting Strength Tester (K012H)



Measures the bursting strength of knitted, woven, nonwoven and laminated fabrics using hydraulic pressure. Maximum 7000 kPa, standard 50 cm² test head and USB connection.

- Fabric bursting strength measurement using hydraulic pressure.
- Maximum test pressure: 7000 kPa.
- Standard test head area: 50 cm².
- Optional test head areas: 7.1, 7.3, 7.55, 10 and 100 cm².
- USB communication port supplied as standard.
- Computer, printer and application software are optional.

ISO 13938-1 · ASTM D3786 · BS 3137 · BS 4768 · DIN 53861

Yarn Testing Equipment

TXL-IPL-001

Single Yarn Tensile Tester



Yarn strength tester with 12-station automatic yarn feeding: breaking force and elongation, cyclic tensile (elastic recovery, permanent set) and relaxation (tension retention) tests. 500 N standard / 1500 N optional capacity, pneumatic grips, 7-inch touchscreen HMI, transparent polycarbonate front cover with door safety sensor; results in gf, cN and RKM. ISO 2062, ASTM D2256, ASTM D885.

- Force capacity: 500 N standard, 1500 N optional.
- Yarn feeding: 12-station automatic feeding system.
- Specimen gripping: pneumatic grips.
- User interface: 7-inch touchscreen HMI.
- Measurement: electronic load cell; force and elongation; results in gf, cN, RKM. ASTM D2256 · ASTM D76 · ASTM D885 · ISO 2062

TXL-IPL-002

Auto-Feed Yarn Tensile Tester



High-capacity yarn tensile testing with auto specimen feeding. Provides high-precision data flow in yarn production and R&D processes. Its ergonomic structure facilitates daily routine tests.

- Automatic yarn feeding system.
- Breaking force and elongation measurement with an electronic load cell.
- Pneumatic specimen grips.
- Touchscreen operator panel.
- Capacity and equipment are specified in the model datasheet used for the order. ASTM D2256 · ASTM D76 · ASTM D885 · ISO 2062

TXL-IPL-003

Yarn Twist Tester



Twist count and direction in single and plied yarns. Direct/indirect method. Digital angle display, auto back-twist, printer output. Provides high-precision data flow in yarn production and R&D processes. Its ergonomic structure facilitates daily routine tests.

- Measuring range: 0 – 999 TPI / TPM.
- Accuracy: ± 1 TPI / TPM.
- Yarn specimen length: 10 mm – 500 mm.
- 3.5" colour touch screen.
- Measuring methods: direct counting and automatic untwist-retwist. AATCC 82 · ASTM D1422 · ASTM D1423 · BS 2085 · ISO 2061

Yarn Testing Equipment

TXL-IPL-004

Yarn Reel Winder (Automatic)

Skein preparation of standard length for count determination. Provides high-precision data flow in yarn production and R&D processes. Its ergonomic structure facilitates daily routine tests.



- Prepares hanks of predetermined length for yarn count determination or dyeing tests.
- It has an electronic controller and motor.
- The reel circumference can be ordered as 1 metre, 1 yard or 1.5 yard.
- The hank can easily be removed from the device via the hinged arm.
- Supplied with a yarn stand enabling simultaneous winding of 10 different yarns.

ASTM D1907 · ASTM D2260 · BS 2010 · DIN 53830 · ISO 2060

TXL-IPL-005

Yarn Evenness Tester

Detection of thin/thick places and neps by capacitive sensor. Provides high-precision data flow in yarn production and R&D processes. Its ergonomic structure facilitates daily routine tests.



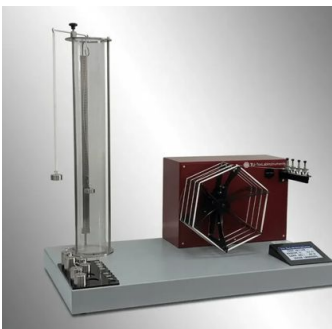
- Measures many parameters such as evenness (U%, CV%), thin and thick places and neps in yarns, rovings and slivers made of natural and synthetic fibres.

ISO 16549

TXL-IPL-006

Crimp Contraction Tester

Determines the crimp percentage of textured synthetic yarns using a water-filled Plexiglas cylinder, skein holder and pretension weights. Particularly suited to textured nylon yarns for hosiery.



- Plexiglas cylinder filled with water.
- Skein holder and millimetre scale with 1 mm accuracy.
- Pretension weights and an automatic single-yarn wrap reel are supplied with the instrument.

BS 6663

Yarn Testing Equipment

TXL-IPL-007

Crimp Stability / Shrinkage Tester

An automatic instrument for measuring textured-yarn crimp and hot-air shrinkage parameters. Loads are applied automatically; the system is used with a dry-air heating chamber.

- Pre-tension: 2.5 cN per position.
 - Speed range: max. 8,000 mm/min.
 - Applicable load: 2.5–2500 cN (automatic).
 - Measurement resolution: 1 μ m.
 - Heating chamber temperature range: ambient – 300 °C.
- ASTM D2259 · ASTM D4031 · DIN 53840 · DIN 53866 · EN 14621



TXL-IPL-008

Yarn Friction Coefficient Tester

Measures the friction behaviour of moving yarn against a metal contact surface; optional yarn-to-yarn friction module. Force range 0–500 cN ($\pm 1\%$), coefficient of friction $0 < \mu < 1$, yarn speed 1–200 m/min, pretension 0–24 cN, 360° contact wrap. Yarn creel, pretensioner, waxing unit, vacuum yarn collection and 4.3-inch touchscreen PLC/HMI.

- Force measuring range: 0–500 cN; accuracy $\pm 1\%$.
 - Coefficient of friction range: $0 < \mu < 1$.
 - Yarn speed: 1–200 m/min; pretension 0–24 cN.
 - Contact / wrap angle: 360°.
 - Standard yarn–metal; optional yarn–yarn friction module.
- ASTM D3108 · TS 7475



TXL-IPL-009

Digital Yarn Count Balance

Yarn count system consisting of an electronic balance and dedicated software. Calculates yarn, sliver and roving counts in Tex, Denier, Nm, Ne and other systems, and fabric mass per unit area in g/m²; gives totals, average, CV and standard deviation.

- Electronic balance: 300 g capacity, 0.001 g readability (0.1 mg balance option).
- Yarn, sliver and roving count: Tex, Denier, Nm, Ne and other systems; fabric mass per unit area (g/m²).
- Statistics: total, arithmetic average, CV %, standard deviation, maximum and minimum, range.
- New recipes are created by saving the number of tests and the sample properties.
- Touch screen and built-in 58 mm printer.

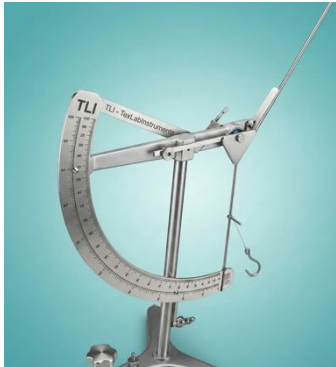
ISO 2060 · ISO 3801 · ISO 3374 · ISO 9073-1 · BS 2471 · EN 12127 · IWTO 22-82 · ASTM D1907 · ASTM D2646 · ASTM D3776



Yarn Testing Equipment

TXL-IPL-010

Mechanical Yarn Count Balance



Traditional dial-type mechanical precision balance. Provides high-precision data flow in yarn production and R&D processes. Its ergonomic structure facilitates daily routine tests.

ISO 2060

TXL-IPL-011

Yarn Sample Card Winder



Even yarn card winding for archiving and presentation. Provides high-precision data flow in yarn production and R&D processes. Its ergonomic structure facilitates daily routine tests.

- Electronically controlled motor system.
- Digital speed setting; the speed combination can be selected according to yarn thickness.
- Fine adjustment to obtain the yarn sample closest to the fabric effect.

ISO 2060

TXL-IPL-012

Yarn Inspection Board & Wrap Reel



Conical board system for visual control and evenness analysis. Provides high-precision data flow in yarn production and R&D processes. Its ergonomic structure facilitates daily routine tests.

- The conical black or white board is used to detect unevenness, hairiness and other faults by winding the yarn at set intervals.

ASTM D2255

Yarn Testing Equipment

TXL-IPL-013

Yarn Crimp & Length Tester (TL-YCM-1200)

Platform with 1,200 mm jaw separation for measuring straightened yarn length and evaluating yarn crimp in woven fabrics. A known gauge length is marked on the fabric, the yarn is carefully removed and straightened under the tension specified for the method; $\text{crimp (\%)} = 100 \times (L - L_0) / L_0$.



- Maximum jaw separation: 1,200 mm.
- Housing width: 1,500 mm.
- Primary measurement: straightened yarn length.
- Evaluation: yarn crimp relative to fabric gauge length.
- Specimen handling: two jaws with transparent upper grips.

ISO 7211-3 · ASTM D3883

TXL-IPL-014

Yarn & Splice Strength Tester (CSSA-02, Portable)

Measures breaking force and elongation of parent yarns and spliced joints by the constant rate of extension (CRE) principle and compares splice performance with the reference yarn. Case-type housing for use beside the winding machine. Automatic electromagnetic grips, adjustable automatic pretension, 4.3-inch touchscreen HMI, integrated thermal printer and PC software over Ethernet.



- Force capacity: 60 N / 6,000 cN.
- Initial gauge length: 250 mm.
- Usable extension travel: 110 mm.
- Maximum elongation: 44% at 250 mm gauge length.
- Crosshead speed: adjustable up to 1,000 mm/min.

ISO 2062 · ASTM D2256

TXL-IPL-015

Interlace (Punto) Tester (TL-IMG-01)

Determines the number of interlace (punto) nodes and nodes per metre in filament yarns (POY/FDY/DTY). Benchtop housing, accessible yarn path, 4.3-inch touchscreen PLC/HMI; test speed, length, interlace count and count per metre on screen. Start, stop and emergency stop on the front panel.



- Application: interlace (punto) counting in filament yarns.
- Control: 4.3-inch touchscreen PLC/HMI.
- Screen outputs: test speed, length, interlace count, count per metre.
- Benchtop housing, accessible yarn path.
- Start, stop and emergency stop on the front panel.

Yarn Testing Equipment

TXL-IPL-016

Interlace Count & Stability Tester (TL-IMG-02)

Interlace (tangle) counting on POY, FDY and DTY filament yarns and evaluation of interlace stability under controlled force or draw ratio. Active pre-tension control, force feedback and stored test recipes.



- Test modes: interlace counting; stability test at constant force and at constant draw ratio.
- Feeding and drawing: active inlet pre-tension; independently controlled godets and draw zone.
- Force measurement: force feedback in the draw zone; second tension sensor on the measuring side.
- Interlace detection: mechanical thickness scanning for POY/FDY/DTY; optional optical sensor for DTY/BCF.
- Touch-screen HMI: speed, length, interlace count, interlaces per metre, force and draw ratio display.

Fibre Testing Equipment

TXL-ELY-001

Single Fiber Tensile Tester



Precise measurement of single fiber breaking strength. Strengthens quality control processes by measuring the structural properties of fibers in detail at the micro level. Offers rapid calibration capabilities.

- Its maximum load capacity is 500 gr and sample movement length is 250 mm.
- It has lengthening measurement features with a precision of 0.1 mm.
- The sample holder jaws are with pneumatic controls.
- Rs232 computer output is standard for the device and the computer software, computer and printer are offered optionally.

ASTM D3822 · ISO 5079

TXL-ELY-002

Fiber Bundle Strength Tester



Measurement of fiber bundle strength properties. Strengthens quality control processes by measuring the structural properties of fibers in detail at the micro level. Offers rapid calibration capabilities.

- Used to analyse breaking load, tensile resistance and average fibre breaking load.

ASTM D1445

TXL-ELY-003

Cohesion Tester



Friction and cohesion force of fibers and slivers. Strengthens quality control processes by measuring the structural properties of fibers in detail at the micro level. Offers rapid calibration capabilities.

- Cohesion force measurements 1-100 N.
- Setting of passage speed 1-60 m/min.

Fibre Testing Equipment

TXL-ELY-004

Micronaire Fiber Fineness Tester

Determines the mean wool fibre diameter by passing a controlled airflow through a wool bundle. Intended for clean, non-medullated wool, particularly combed slivers.

- Measures the average fibre diameter by passing a straight air current through the wool bunch.
- Regular wool without a medulla layer can be analysed with this device.
- It is particularly suitable for combed slivers.

ISO 1136 · ASTM D1282 · IWTO 6



TXL-ELY-005

Sliver & Roving Wrap Reel

Standard-length preparation of sliver and roving. Strengthens quality control processes by measuring the structural properties of fibers in detail at the micro level. Offers rapid calibration capabilities.

- Models: automatic vertical, automatic horizontal, manual metre and manual yard.
- Measuring unit: metre or yard.
- Measuring accuracy: 1 mm.
- Automatic model has electronic touch-screen control with digital speed control unit.
- Manual model has a mechanical counter with digital indicator.



TXL-ELY-006

Microscopic Cross-Section Kit

Preparation kit for fiber and yarn cross-section examination. Strengthens quality control processes by measuring the structural properties of fibers in detail at the micro level. Offers rapid calibration capabilities.

- Includes all accessories and consumables to prepare fibre cross sections for microscopic analysis.

AATCC 20



Fibre Testing Equipment

TXL-ELY-007

Nep Counter



Nep count determination in cotton specimens. Strengthens quality control processes by measuring the structural properties of fibers in detail at the micro level. Offers rapid calibration capabilities.

- 10 pieces of 4-digit counter classifies foreign substances.

TXL-ELY-008

Fiber Separation Comb Set



A comb set for examining fibre bundle length and length distribution by comb sorting, including Barbe and Hauteur evaluation.

- Used to measure all types of fibre length and length distribution in terms of Barbe and Hauteur.
- It measures fibres in bundle form.

ISO 920 · ASTM D1440 · ASTM D1575

TXL-ELY-009

Rapid Oil Extraction Apparatus



Determines the oil or finish content of wool or synthetic samples by solvent percolation and evaporation within 15 minutes. Temperature range is 60–150 °C; sample weight is 2 g per test.

- Determines the oil or finish content of wool or synthetic samples by solvent percolation and evaporation within 15 minutes.
- Temperature range is 60-150 °C and sample weight is 2 g per test.

GB/T 6504 · GB 6977

Fibre Testing Equipment

TXL-ELY-010

Single-Fibre Length Analyser (TL-FLM-550)

Individual fibre length measurement on a compact laboratory platform. Each fibre end is placed at the 2.5 mm reference mark beneath the transparent upper jaws; the fibre is straightened without stretching and its length is read. The combined 5 mm held inside the two jaws is already included in the length calculation.



- Fibre length capacity: up to 550 mm.
- Housing width: 803 mm.
- Housing height: 185 mm, excluding jaws.
- Upper gripping surfaces: transparent plexiglass.
- End insertion reference: 2.5 mm at each jaw.

ISO 6989

Flammability Testing Equipment

TXL-YAN-001

Vertical Flame Spread Tester



Flame spread of vertically oriented textile specimens. Fully complying with fire safety regulations, it analyzes the flammability and burning behavior of materials with the highest precision. Equipped with superior safety features.

- Different test methods can be loaded via the touch-screen control unit and computer connection.
- With dedicated fixtures, flammability tests on toys, curtains, covers and upholstery are also possible.

ASTM D6413 · BS 5438 · ISO 15025 · ISO 6940 · ISO 6941

TXL-YAN-002

45° Flammability Tester



Flammability and flame spread at 45°. Apparel textiles. Fully complying with fire safety regulations, it analyzes the flammability and burning behavior of materials with the highest precision. Equipped with superior safety features.

- Determines the flame propagation properties of single- or multi-layer textile products (flame spread rate, damaged length, torch burning duration and so on).

ASTM D1230 · BS 5438 · NFPA 702 · TS 6344

TXL-YAN-003

Horizontal Flammability Tester



Horizontal burning rate. Automotive upholstery and plastics. Fully complying with fire safety regulations, it analyzes the flammability and burning behavior of materials with the highest precision. Equipped with superior safety features.

- It is designed stainless steel cabinet with observation window, sample holder and burner.

ASTM D5132 · FMVSS 302

Flammability Testing Equipment

TXL-YAN-004

NFPA 701 Flame Propagation Tester

Flame propagation for curtains, textiles and films. Fully complying with fire safety regulations, it analyzes the flammability and burning behavior of materials with the highest precision. Equipped with superior safety features.

- Suitable for fabrics with a mass below 700 g/m² (21 oz/yd²).

NFPA 701



TXL-YAN-005

UL94 / IEC 60695 Burn Tester

Flammability classification of plastics and electronics. Fully complying with fire safety regulations, it analyzes the flammability and burning behavior of materials with the highest precision. Equipped with superior safety features.

- Test flame: 50 W and 500 W.
- Flame height: 20-175 mm.
- Bunsen burner diameter: 9.5 mm ± 0.5 mm.
- Burner tube: 9.5 mm ± 0.3 mm inner diameter, 100 mm ± 10 mm length.
- Burner angle: 0°, 20°, 45°.

UL 94 · IEC 60695-11-10 · ASTM D635 · ASTM D3801 · ASTM D4986 · ASTM D4804 · ASTM D5048 · ISO 9772 · ISO 9773 · IEC 60695-11-2 · IEC 60695-11-20



TXL-YAN-006

Upholstery Flammability Tester

Flammability and cigarette smouldering for upholstery. Fully complying with fire safety regulations, it analyzes the flammability and burning behavior of materials with the highest precision. Equipped with superior safety features.

- Includes large and small test rig, timer, flow meter.

BS 5852 · EN 1021



Flammability Testing Equipment

TXL-YAN-007

Blanket Flammability Tester

Flame spread test for blankets and bedding. Fully complying with fire safety regulations, it analyzes the flammability and burning behavior of materials with the highest precision. Equipped with superior safety features.

- Many different test methods can be installed help with touch screen control unit and computer connection.

BS 5722 · ASTM D4151



TXL-YAN-008

Carpet Flammability Tester

A test chamber for evaluating the effects of a small ignition source on carpets and floor coverings. Methenamine tablet or hot metal nut testing is performed with the appropriate fixture.

ISO 6925 · BS 4790 · BS 6307



TXL-YAN-009

Limiting Oxygen Index (LOI) Tester

Minimum oxygen concentration to support combustion. Fully complying with fire safety regulations, it analyzes the flammability and burning behavior of materials with the highest precision. Equipped with superior safety features.

- Through the touch screen controller and PC communication you can add different test methods.

ISO 4589 · ASTM D2863



Flammability Testing Equipment



TXL-YAN-010

M1 — NF P 92 503 Fire Resistance Tester

French M-class fire classification at 30° angle. Fully complying with fire safety regulations, it analyzes the flammability and burning behavior of materials with the highest precision. Equipped with superior safety features.

- Mainly used for flexible materials of 5 mm thickness or less.
- Suitable for M1 and M3 classification.

NF P92-503



TXL-YAN-011

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.

NF P92-504



TXL-YAN-012

NF P 92-505 Dripping Test Apparatus

A complementary reaction-to-fire apparatus for evaluating dripping from thermally melting materials. Used when assessing the M classification after the main or flame persistency test.

NF P92-505

Washing Fastness & Lab Dyeing Machines

TXL-BOY-001

Washing Fastness Tester (Gyrowash)

Rotary tumbling washing fastness. ISO 105-C / AATCC. Maximizes process repeatability in textile finishing and dyeing operations. Equipped with advanced control systems.

- Number of test vessels: 6 standard; 8/12/16/20/24 tube options available.
- Test vessel volume: 550 ml.
- Rotation speed: 40 ± 2 rpm.
- Operating temperature: ambient – 98 °C.
- Temperature accuracy: ± 1 °C.

AATCC 61 · ISO 105-C06 · ISO 105-C08 · ISO 105-C09 · ISO 105-C10 · ISO 105-D01 · ISO 105-E03 · M&S C04 · M&S C05 · M&S C10A · M&S C12A · M&S C37



TXL-BOY-002

Infrared Sample Dyeing Machine

Infrared high-pressure HT dyeing. 12-beaker capacity. Maximizes process repeatability in textile finishing and dyeing operations. Equipped with advanced control systems.

- Capacity: 12 beakers.
- Operating temperature range: 30 °C – 135 °C (maximum 140 °C).
- Heating rate: adjustable between 0.5 °C and 4 °C/min.
- Heating power: 1950 W.
- Rotation speed: 15 – 40 rpm.

ISO 105-C



TXL-BOY-003

Sample Dyeing Machine (Oil-Bath)

High-temperature sample dyeing with oil-bath heating. Maximizes process repeatability in textile finishing and dyeing operations. Equipped with advanced control systems.

- Ten 300 cc stainless steel (AISI 316) dyeing tubes.
- Thermal oil circulation heating system for homogeneous temperature distribution.
- 3.5" touch screen control unit: 99 programmes with 20 steps each.
- Safety thermostat and over-temperature protection system.
- Capable of both atmospheric and polyester (HT) dyeing.

ISO 105-C



Washing Fastness & Lab Dyeing Machines

TXL-BOY-004

Package Dyeing Machine (Lab)

Laboratory-type package/cone dyeing machine. Maximizes process repeatability in textile finishing and dyeing operations. Equipped with advanced control systems.

- Max bobbin diameter is 220 mm; max bobbin length is 400 mm.
- It has a PLC controller and all works automatically.

ISO 105-C



TXL-BOY-005

Drum-Type Piece Fabric Dyeing Machine

Drum-type laboratory piece fabric dyeing machine. Maximizes process repeatability in textile finishing and dyeing operations. Equipped with advanced control systems.

- Liquor ratio: 1:10.
- Maximum machine capacity is 5 Kg.
- Extension pot volume: 4lt.
- Maximum water expense is 75 lt/hr.

ISO 105-C



TXL-BOY-006

Foulard / Padding Mangle

Laboratory pneumatic padding mangle for impregnation. Maximizes process repeatability in textile finishing and dyeing operations. Equipped with advanced control systems.

- Horizontally mounted rollers, 350 mm wide.
- Fabric pass-through speed: 0-15 m/min.
- Roller squeezing pressure adjustable between 0 and 6 bar.

ISO 105-C



Washing Fastness & Lab Dyeing Machines

TXL-BOY-007

Mini Stenter (Laboratory Dryer)



Dries and fixes fabric samples under tension after dyeing and washing. Temperature 25–250 °C, heating rate 15 °C/min, adjustable air circulation 850–1,700 m³/h; temperature and time programmable on a touch-panel PLC. Maximum sample size 350 × 350 mm; pin and adjustable frame options, automatic sample release at the end of the process.

- Working temperature: 25–250 °C.
- Heating capacity: 4,500 W; heating rate 15 °C/min.
- Air circulation: 850–1,700 m³/h, adjustable.
- Touch-panel PLC; programmable temperature and time.
- Interface: RS232.

ISO 139

TXL-BOY-008

Mini Stenter with Steamer



Drying, fixation and saturated-steam steaming in one unit. Built-in steam generator (saturated steam 220 °C); temperature 25–250 °C, heating rate 15 °C/min, air circulation 850–1,700 m³/h, touch-panel PLC. Maximum sample size 350 × 350 mm; automatic sample release at the end of the process.

- Built-in steam generator: saturated steam 220 °C.
- Working temperature: 25–250 °C.
- Heating capacity: 4,500 W; heating rate 15 °C/min.
- Air circulation: 850–1,700 m³/h, adjustable.
- Touch-panel PLC; programmable temperature and time.

ISO 105-C

TXL-BOY-009

Laboratory Steamer / Steam Cabinet



Fixation and steaming cabinet with saturated steam. Maximizes process repeatability in textile finishing and dyeing operations. Equipped with advanced control systems.

- Maximum temperature is 250 C°; maximum sample diameter is 350 mm x 350 mm.
- Interior cabin is made of stainless steel.

ISO 105-C

Washing Fastness & Lab Dyeing Machines

TXL-BOY-010

Print Durability Tester (Durawash)

Laboratory instrument with separate washing and spin compartments for repeatable durability assessment of garments, printed fabrics and textile articles. Stainless steel wash chamber with hinged safety lid, dedicated spin compartment with safety lid, automatic water filling and a touchscreen HMI with programmable test methods. Drying unit included as standard.

- Configuration: garment and printed fabric durability tester with wash and spin compartments.
- Wash compartment: stainless steel wash chamber with hinged safety lid.
- Spin compartment: dedicated spin compartment with safety lid.
- Controller: touchscreen HMI with programmable test methods.
- Process control: electronically controlled wash and spin with automatic water filling.

BS 7907 · DIN 16792 · M&S P5 · M&S C15



TXL-BOY-011

Reference Washing Machine (Wascator)

Standard reference washing machine FOM 71 CLS. Maximizes process repeatability in textile finishing and dyeing operations. Equipped with advanced control systems.

ISO 6330 · AATCC 135



TXL-BOY-016

Laboratory Reference Washing Machine (GyroWash GW-6330A)

Front-loading laboratory reference washing machine designed to run ISO 6330 test procedures. 61 litre stainless steel drum, inverter-driven bidirectional action and 1,200 rpm maximum spin. Pulse flowmeter measures the fill volume electronically in litres; the pulse/litre factor is calibrated from the service menu and the target and actual volume of every fill are recorded. Programmable controller with colour display; recipes are created and uploaded over Wi-Fi from a phone or computer, with no program card required. Final compliance is documented by commissioning, calibration and verification results.

- Intended use: programmable domestic laundering procedures for textile testing.
- Program framework: ISO 6330 procedures and user-defined recipes.
- Drum volume: 61 L.
- Nominal dry load: 9 kg base machine capacity; test load according to the selected method.
- Maximum spin speed: 1,200 rpm.

ISO 6330



Washing Fastness & Lab Dyeing Machines

TXL-BOY-017

Laboratory Coating Knife (RKL 40)

Benchtop laboratory coating knife for film coating of textile and leather samples. Knife-over-roll, between-rolls and in-front-of-roll coating; 300 mm blade, $\pm 30^\circ$ adjustable blade angle, up to 5 mm coating gap, maximum sample 285×340 mm.



- Maximum sample size: 285×340 mm.
- Blade width: 300 mm; blade angle adjustable $\pm 30^\circ$.
- Over-roll and between-rolls operation: max. 5 mm.
- Roll diameter: 40 mm (2 pcs).
- Dimensions: $600 \times 640 \times 355$ mm; weight 32 kg.

TXL-BOY-012

Precision Tumble Dryer

TexLab Instruments Precision Tumble Dryer provides ideal drying conditions for textile dimensional stability and appearance testing. Features bidirectional drum rotation for homogeneous drying. Models equipped with Selecta control and humidity control options. Model options: T4250 (250L, 11kg/cycle), T3190 (190L, 7.5kg/cycle, bidirectional drum), T2130 (130L, 5.5kg/cycle). Compliant with ISO 6330 and AATCC 135.



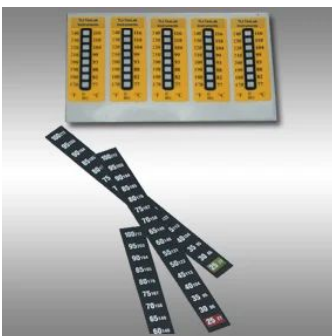
- Dedicated drying programs for standard additional programs for normal bulk drying. Stainless steel front & stainless steel drum.

ISO 6330 · AATCC 135

TXL-BOY-013

Temperature Indicator Strips (Thermostrip)

Single-use temperature strips that indicate surface temperature through irreversible colour changes at defined thresholds. The measuring range depends on the selected strip.



ISO 105-C

Washing Fastness & Lab Dyeing Machines

TXL-BOY-014

Horizontal Padder



Used for squeezing operations after dyeing and washing of fabrics. It has horizontally arranged cylinders 350 mm or 500 mm wide with 70 shore hardness. Fabric passage speed is adjustable between 1 and 40 m/min and squeezing pressure between 2 and 6 bar. A balance adjustment system provides equal pressure, with safety locks between the rollers.

- Used for squeezing operations after dyeing and washing of fabrics.
- It has horizontally arranged cylinders 350 mm or 500 mm wide.
- The cylinder hardness is 70 shore.
- Fabric passage speed can be set between 1 and 40 m/min.
- Squeezing pressure can be set between 2 and 6 bar.

TXL-BOY-015

Laboratory Coating Applicator (RKL 40)



Benchtop coating applicator for film coating on textile and leather specimens. Suitable for coating on the roller, between the rollers and in front of the roller; blade angle and coating thickness are adjustable.

- Maximum specimen size: 285 × 340 mm.
- Blade width: 300 mm.
- Blade angle: adjustable $\pm 30^\circ$.
- Coating on the roller: max. 5 mm.
- Coating between the rollers: max. 5 mm.

TXL-BOY-018

AATCC Shrinkage Washing Machine (Top-Loading)



Top-loading agitator laboratory washing machine for dimensional change (shrinkage) and appearance testing to AATCC methods. AATCC LP1 Table I, IIC, IID, IIIA, IIIB and IIIC programs are preloaded; multi-cycle washing runs automatically.

- Type: top-loading agitator laboratory washing machine.
- Programs: AATCC LP1 Table I, IIC, IID (Normal, Delicate, Permanent Press), IIIA, IIIB, IIIC; drain & spin, rinse & spin and custom programs edited via PC software.
- Table I Normal: water level 19 ± 1 gal, agitation 86 ± 2 spm, washing 16 ± 1 min, final spin 660 ± 15 rpm, 5 ± 1 min.
- Inlet water temperature control: 25–60 °C (washing), tap water (rinsing); operates with an external hot water supply, no heater in the machine.
- Load capacity: 10.5 kg.

AATCC 88B · AATCC 88C · AATCC 124 · AATCC 130 · AATCC 135 · AATCC 150 · AATCC 179 · AATCC 207 · AATCC LP1 · ISO 6330

Washing Fastness & Lab Dyeing Machines



TXL-BOY-019

AATCC Shrinkage Tumble Dryer

Laboratory tumble dryer for drying after laundering in AATCC shrinkage and appearance tests. Normal, Delicate and Permanent Press programs; exhaust temperature controlled as the methods require.

- Type: electric laboratory tumble dryer.
 - Programs: Normal, Delicate, Permanent Press.
 - Exhaust temperature: Normal and Permanent Press $68 \pm 6^\circ\text{C}$, Delicate $60 \pm 6^\circ\text{C}$; cool-down time ≤ 10 min.
 - Capacity: 8 kg.
 - Power: 5200 W; supply 220 V / 50 Hz or 110 V / 60 Hz.
- AATCC 88B · AATCC 88C · AATCC 124 · AATCC 135 · AATCC 143 · AATCC 150 · AATCC 172 · AATCC 179 · AATCC 188 · AATCC LP1

Carpet Testing Equipment

TXL-HAL-001

Tuft Withdrawal Force Tester



Force required to withdraw tufts from carpet surface. Simulates long-term use of carpets and floor coverings as realistically as possible. Features a robust and durable mechanical structure.

- In 20 grams readability, a maximum capacity of 5 kg or 10 kg is available.
- It is easy to use as models with analogue and digital display.

ISO 4919 · ASTM D1335

TXL-HAL-002

Tetrapod Drum Tester (3-Drum)



3-drum tetrapod system for carpet durability. Simulates long-term use of carpets and floor coverings as realistically as possible. Features a robust and durable mechanical structure.

- Determines the degree of appearance retention of carpets produced by weaving or tufting.
- The specimen is placed inside the rotating drum with the pile facing inward, and the free-acting tetrapod foot is placed on it.
- After a defined number of rotations, the change in surface appearance is assessed.

ISO/TR 6131 · ASTM D5251

TXL-HAL-003

Hexapod Tumble Tester (1 / 3 / 6 stations)



Appearance change testing of carpets and textile floor coverings. The specimen lines the inside of the drum; a metal test body with six polyurethane studs tumbles over it as the drum rotates, and the change in surface structure and colour appearance is assessed. Single-station benchtop, 3-station single row and 6-station (3 × 2) floor models. ISO 23122:2025 (formerly ISO 10361).

- Principle: a metal test body with six polyurethane studs tumbles over the specimen inside the drum.
- Single station: benchtop, 4.3-inch touchscreen; approx. 680 × 550 × 500 mm, 75 kg.
- 3 stations: single row, common touch panel; approx. 1,550 × 650 × 650 mm, 170 kg.
- 6 stations: 3 columns × 2 rows, floor type; approx. 1,550 × 750 × 1,450 mm, 300 kg.
- Standards: ISO 23122:2025; ISO 10361:2015 (withdrawn, previous method).

ISO 23122 · ISO 10361

Carpet Testing Equipment

TXL-HAL-004

Pile Height / Thickness Gauge

Precise carpet pile height and thickness measurement. Simulates long-term use of carpets and floor coverings as realistically as possible. Features a robust and durable mechanical structure.

- Measurement range is between 0-30mm.
- Measurement precision is 0,01mm.
- The device is a digital display.

ISO 10834



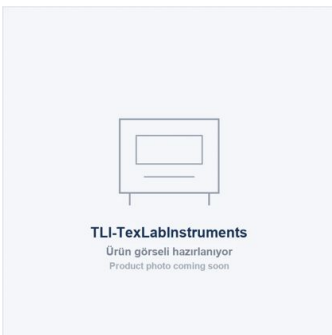
TXL-HAL-005

Static Load Compression Tester

Compression and recovery of carpets under static loading. Simulates long-term use of carpets and floor coverings as realistically as possible. Features a robust and durable mechanical structure.

- Used to determine compressibility after applying a load of 7.0 kg/cm² for a specified time.
- A thickness gauge is supplied with the instrument.

ISO 3416 · BS 4939



TXL-HAL-006

Dynamic Load / Cyclic Compression Tester

Dynamic fatigue and compression resistance of carpets. Simulates long-term use of carpets and floor coverings as realistically as possible. Features a robust and durable mechanical structure.

- Determines the compressibility of floor coverings under cyclical impacts of preset weights for a defined number of impacts.
- Supplied with an integrated safety cover, cumulative counter and electronic preset unit.

ISO 2094



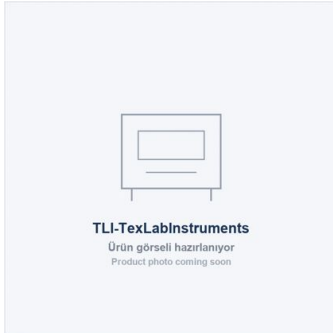
Carpet Testing Equipment

TXL-HAL-007

Pile Wear / Abrasion Tester

Abrasion resistance of carpet pile. Simulates long-term use of carpets and floor coverings as realistically as possible. Features a robust and durable mechanical structure.

- Used to determine the wet and dry abrasion resistance of flexible materials such as textiles, paper, leather and plastics.
- Rotates the specimens inside a cylindrical test chamber lined with abrasive material.
- The rotating action is provided by a rotor-shaped impeller at a preset speed for a preset duration.



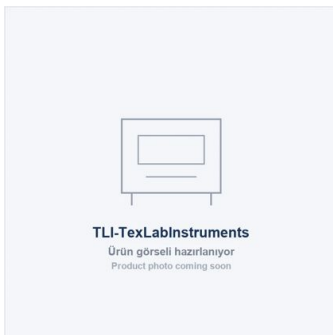
TXL-HAL-008

Carpet Abrasion Machine (Schiefer)

Carpet pile abrasion resistance by Schiefer abrasion motion; mass loss is measured after a set number of rubs. Simulates long-term use of carpets and floor coverings as realistically as possible. Features a robust and durable mechanical structure.

- Operates with the Schiefer abrasion motion.
- Supplied with an electronic preset unit and cumulative counter.
- Fitted with an interlocked safety cover.

EN 1813 · PD 6527



TXL-HAL-009

Carpet Thickness Gauge

Measures textile thickness under a specified pressure. Measuring range 0.01–50 mm, resolution 0.01 mm. Controls are operated from the touchscreen; computer, printer and PC software are optional.

- Determines the thickness of textiles and textile products under a specified pressure.
- Thickness measurement range is 0.01 to 50 mm.
- Measurement accuracy is 0.01 mm.
- Pressure feet of 5 cm², 10 cm² and 20 cm² can be supplied optionally.
- All controls can be operated from the touch screen without a PC.

ISO 5084 · ISO 9073-2 · ISO 2286-3 · ASTM D1777 · TS 7128 · TS 1534-3



Carpet Testing Equipment

TXL-HAL-010

Vettermann Drum Tester — TL-VTD-01 (Single Station)



Single-drum floor-standing system for appearance change and cut-edge mechanical damage testing of carpet. 730±10 mm internal diameter, 270±5 mm depth; 16±1 rpm with automatic direction reversal every 5 minutes. Physical revolution counting, contact-free suction nozzle and 4.3 inch touch screen. ISO 23106 (A14) and ISO 10833 (E06) loading kits.

- Stations: 1, single layout.
- Control: 4.3 inch touch screen.
- Drum: 730 ± 10 mm internal diameter; 270 ± 5 mm internal depth.
- Motion: 16 ± 1 rpm; automatic direction reversal every 5 minutes.
- Method kits: ISO 23106 A14 and ISO 10833 E06 loading assemblies.

ISO 23106 · ISO 10833

TXL-HAL-011

Vettermann Drum Tester — TL-VTD-03 (Three Stations)



Single-row three-station laboratory system; three independent drums share one carrier body and one control interface. Each drum keeps its own drive, revolution sensor, door lock, method kit and suction line. 7 inch shared HMI. Approx. 2,850 × 900 × 1,450 mm / 590 kg; 380-415 V three phase, ≤5.5 kW.

- Stations: 3, 3×1 layout.
- Control: 7 inch shared HMI.
- Drum: 730 ± 10 mm internal diameter; 270 ± 5 mm internal depth.
- Motion: 16 ± 1 rpm; automatic direction reversal every 5 minutes.
- Method kits: ISO 23106 A14 and ISO 10833 E06 loading assemblies.

ISO 23106 · ISO 10833

TXL-HAL-012

Vettermann Drum Tester — TL-VTD-06 (Six Stations)



Six independent test positions in a 3 × 2 configuration, retaining speed, revolution, suction and safety control at station level. Ball loading support and access platform for the upper row included. Six controlled suction lines, ≥25 L/s at each active nozzle. Approx. 2,850 × 950 × 1,850 mm / 1,080 kg; 380-415 V three phase, ≤10.5 kW.

- Stations: 6, 3×2 layout.
- Control: 7 inch shared HMI.
- Drum: 730 ± 10 mm internal diameter; 270 ± 5 mm internal depth.
- Motion: 16 ± 1 rpm; automatic direction reversal every 5 minutes.
- Method kits: ISO 23106 A14 and ISO 10833 E06 loading assemblies.

ISO 23106 · ISO 10833

Carpet Testing Equipment

TXL-HAL-013

Lisson Tretrad Carpet Wear Tester — TL-LTT-02 (Two Stations)

Two-station wear testing system for textile floor coverings. Specimens are clamped under longitudinal tension; four-foot rotating heads travel along the specimen while the soles apply controlled load and slippage, and travelling nozzles remove loose fibres. The ISO 12951:2020 Method A result is calculated from specimen mass before and after testing.



- Method reference: ISO 12951:2020 – Method A.
 - Capacity: 2 specimens; two four-foot rotating heads.
 - Test track: 800 mm nominal; travel speed 0.28 m/s nominal. Track length follows the reference definition in ISO 12951; it is not the overall carriage stroke.
 - Sole peripheral speed: 20% above linear travel speed, nominal.
 - Head load: 15 kg per head without soles; specimen tension 20 kg tension weight.
- ISO 12951

Universal Testing Machines



TXL-UNI-001

Universal Testing Machine (5 kN)

Tensile, compression, tear and peel testing. 5 kN. Increases laboratory efficiency by combining a wide range of physical tests in a single device. Includes versatile testing software.

- Used to measure the strength of fabrics and similar products.
- The maximum force applied at the moment of rupture can be read.
- A set of jaws is supplied with the device.
- Measurement is performed with an electronic load cell.

ISO 13934-1 · ASTM D5034



TXL-UNI-004

UTM for Yarn Testing (300 N)

Low-capacity, high-precision UTM for yarn and fiber. 300 N. Increases laboratory efficiency by combining a wide range of physical tests in a single device. Includes versatile testing software.

- Maximum force capacity: 300 N.
- Elongation measurement resolution: 0.01 mm.
- Travel excluding jaws: 250 mm, varying with the jaw set used.
- Single-column construction with electronic load cell force measurement.
- Automatic motor with adjustable speed.

ASTM D2256 · ISO 2062 · ISO 8124 · M&S P115



TXL-UNI-005

Strength Testing Machine (3 kN)

Single-column compact strength testing machine for breaking and separation strength of fabrics and similar materials. 3 kN force capacity, electronic load cell, pneumatic jaw set and a 3.5 inch colour touch screen.

- Maximum force capacity: 3000 N (3 kN).
- Elongation measurement precision: 0.01 mm.
- Travel: 720 mm standard; 600 mm with pneumatic jaws.
- Force measurement: electronic load cell.
- Pneumatic jaw set included as standard.

ISO 13934-1 · ISO 13934-2 · ASTM D5034 · ASTM D5035

Universal Testing Machines

TXL-UNI-006

Grip Systems for Universal Tensile Testers



Pneumatic and manual fabric grips with interchangeable jaw faces for textile specimens: 35 × 105 / 155 / 200 mm flat rubber and grooved aluminium faces, inclined rubber faces for trapezoid tear, 25 × 25 mm grab face, 82 and 125 mm loop bar sets and manual yarn grip. ISO 13934-1/-2, ISO 13935-1/-2, ISO 9073-3/-4/-18, ASTM D5034/D5035/D5587, EN 14704-1, ISO 2062.

- Pneumatic fabric grip (UMT-PG-SET) and manual fabric grip (UMT-MG-SET): 2 grips / set, supplied with 35 × 105 mm flat rubber faces (4 pcs).
- Flat rubber and grooved aluminium faces: 35 × 105, 35 × 155, 35 × 200 mm (4 pcs / set); ISO 13934-1, ISO 13935-1, ISO 9073-3, ASTM D5035.
- Inclined rubber faces (35–72.5 × 105 mm) for trapezoid tear: ISO 9073-4, ASTM D5587.
- 25 × 25 mm grab face: ISO 13934-2, ISO 13935-2, ISO 9073-18, ASTM D5034.
- 82 and 125 mm loop bar sets (Ø8 mm, max. 200 N): EN 14704-1 Method B, ASTM D4964, BS 4952. ISO 13934-1 · ISO 13934-2 · ISO 13935-1 · ISO 13935-2 · ISO 9073-3 · ISO 9073-4 · ASTM D5034 · ASTM D5035 · ASTM D5587 · EN 14704-1 · ISO 2062

Membrane & Waterproofness Testing Equipment

TXL-MBR-001

CryoBend — Cold Bending Tester

Cold bending resistance test for bituminous waterproofing membranes at sub-zero temperatures. Precise sub-zero temperature control, fast cooling system, touchscreen interface, robust industrial build. Temperature range: down to -30°C. Fully compliant with EN 1109. Used for reliable sub-zero resistance testing of building materials, membranes, and technical textiles.

- Temperature range: -30 °C to +20 °C.
- Temperature tolerance: ± 0.5 °C.
- Cooling system: compressor operated, CFC-free R404A refrigerant.
- Insulated liquid cooling bath and standard bending mandrel.
- Touchscreen interface.

EN 1109



TXL-MBR-002

Water Vapour Transmission Rate Tester (WVTR-01A)

Single-station compact automatic gravimetric water vapour transmission rate tester. A single fixed test cup, built-in 0.1 mg weighing system and PC-based process control run long WVTR tests with minimal operator intervention. Wet Cup and Dry Cup methods to ASTM E96/E96M.

- Reference standard: ASTM E96/E96M — gravimetric water vapour transmission rate.
- Single-station benchtop design; no rotary table or cup transport mechanism.
- Common test cup with Ø76 mm clear opening for Wet Cup and Dry Cup; 45.36 cm² test area.
- Specimen: approx. Ø90 mm cut.
- Test environment: controlled 20-50 °C and 40-95% RH.

ASTM E96



TXL-MBR-003

EN 1928 Waterproofing Impermeability Tester

Reliable water impermeability testing for waterproofing membranes. Compact and precise solution performing Method A and Method B under EN 1928 on a single platform. 0–200 kPa pressure control, 24-hour stable test capacity, stainless steel housing, digital control panel, interchangeable fixture system. Test duration: 24±1 hours. Ideal for roof membranes, bituminous systems, PVC/TPO membranes.

- Method A and Method B in a single device.
- Pressure range: 0-200 kPa.
- Test duration: 24 ± 1 hours.
- Specimen diameter: Ø150 mm (Method A), Ø130 mm (Method B).
- Interchangeable fixture system.

EN 1928



Membrane & Waterproofness Testing Equipment

TXL-MBR-004

EN 12310-1 Test Fixture — Puncture & Tear Resistance

High-precision clamping mechanism for puncture and tear resistance tests of textile, film and membrane specimens. Compliant with EN 12310-1, robust and adjustable structure, secure grip with sharp blade edges, easy snap-on mechanism. Specimen thickness: 0.1–5 mm. Clamping range: 10–50 mm. Stainless steel material.

EN 12310-1



TXL-MBR-005

Automatic Weighing Water Vapour Transmission Rate Tester (WVTR-06A)

Gravimetric water vapour transmission rate tester with six test positions and a built-in semi-micro balance. A rotary table brings each cup to the weighing station; because the chamber stays closed, overnight and weekend tests run unattended. To ASTM E96/E96M.

- Reference standard: ASTM E96/E96M-24a — gravimetric water vapour transmission rate.
- Test positions: 6 independent specimen cups.
- Cup / test area: hard-anodised aluminium cup; Ø76 mm clear opening; 45.36 cm².
- Specimen: approx. Ø90 mm cut; standard 0-3 mm thickness.
- Temperature: 20-50 °C; stability ±0.5 °C.

ASTM E96 · ISO 12572



TXL-MBR-006

External Balance Water Vapour Transmission Rate Tester (WVTR-08E)

Gravimetric water vapour transmission rate tester with eight test positions and an external analytical balance. The operator only weighs the cups; climate control, cup indexing, data transfer and reporting are handled by the system. To ASTM E96/E96M.

- Reference standard: ASTM E96/E96M-24a — gravimetric water vapour transmission rate.
- Test positions: 8; suitable for a 6 specimen + 2 blank arrangement.
- Cup / test area: hard-anodised aluminium cup; Ø76 mm clear opening; 45.36 cm².
- Specimen: approx. Ø90 mm cut; standard 0-3 mm thickness.
- Temperature: 20-50 °C; stability ±0.5 °C.

ASTM E96 · ISO 12572



Footwear & Leather Testing Equipment

TXL-DER-001

Elastomer Sole Abrasion Tester

Determines the abrasion resistance of elastomer materials such as shoe soles. It has a touch screen and stops at the set test value with ± 0.1 metre accuracy. The test path can be selected from 1 metre to 40 metres.



- Determines the abrasion resistance of elastomer materials such as shoe soles.
- Stops at the set test value with ± 0.1 metre accuracy.
- The test path can be selected from 1 metre to 40 metres.

DIN 53516 · ISO 20344 · EN 12770

TXL-DER-002

Leather Rub Fastness Tester

Carries out a rub fastness test on the leather surface to determine the amount of marring of the surface or finish and to assess colour transfer from the specimen to the rubbing pad. Fastness is assessed by checking the colour change of the specimen and the staining of the felt after rubbing.



- Carries out a rub fastness test on the leather surface, assessing surface marring and colour transfer to the felt.
- Fastness is assessed by checking the colour change of the specimen and the staining of the felt after rubbing.
- It has a memory function and both dry and wet tests can be performed.
- It has a touch screen control panel.

ISO 11640 · DIN 53339

TXL-DER-003

Flexometer — Cold Environment Tester

Detects the resistance of coating layers on the leather surface during continuous folding and flexing. Twelve leather specimens can be tested simultaneously. Test parameters can be changed as required from the control unit; tests can be run down to -25°C .



- Detects the resistance of coating layers on the leather surface to continuous folding and flexing.
- Twelve leather specimens can be tested simultaneously.
- Tests can be carried out down to -25°C .

DIN 53351

Footwear & Leather Testing Equipment

TXL-DER-004

Sand Bath

Used in research, food, pharmaceutical, chemical and automotive laboratories. Heats from 50 °C up to 300 °C; the heaters are embedded in the body for fast warm-up. Insulated against heat loss with reflectors and controlled by a digital thermostat.



- Used in research, food, pharmaceutical, chemical and automotive laboratories.
- Heats from 50 °C up to 300 °C.
- The heaters are embedded in the body, providing fast warm-up.
- Insulated against heat loss with reflectors.
- Temperature is controlled by a digital thermostat.

Moisture Measurement Instruments

TXL-NEM-001

Textile Moisture Meter (Aquaboy)



Portable fast digital moisture meter. 17 material scales. Instantly and accurately detects moisture and temperature controls, which are critically important for sensitive production environments. Offers portable and practical use.

- Roller Electrode 25 mm.
- Stab Electrode 100 mm.

ISO 6741 · ASTM D2495

TXL-NEM-002

Moisture Analyser (Halogen Balance)



Halogen-heated precision moisture determination. Instantly and accurately detects moisture and temperature controls, which are critically important for sensitive production environments. Offers portable and practical use.

- Product has a capacity of 90 g allowing for analysis of larger sample sizes.
- Ideal for food, agriculture, chemical, pharmaceutical and other applications that require measurements up to 0.01% 0.001 g.

ISO 6741

TXL-NEM-003

Temperature & Humidity Datalogger



Ambient temperature and humidity recorder. USB output. Instantly and accurately detects moisture and temperature controls, which are critically important for sensitive production environments. Offers portable and practical use.

- Accuracy: $\pm 2\%$ RH / $\pm 0,5^{\circ}\text{C}$.
- Operating Temperature: $-20^{\circ}\text{C} \sim 80^{\circ}\text{C}$.
- Memory: Micro SD Card Input + USB Memory Support.
- USB : 4x2.0+ Micro USB 5V/2,5A Power Input.

ISO 139

Moisture Measurement Instruments

TXL-NEM-004

Sling Psychrometer



Relative humidity measurement by rotation. Instantly and accurately detects moisture and temperature controls, which are critically important for sensitive production environments. Offers portable and practical use.

ISO 139

TXL-NEM-005

Climatic Conditioning Chamber



Conditioning chamber at standard conditions ($20^{\circ}\text{C} \pm 2$ / $65\% \text{RH} \pm 4$). Instantly and accurately detects moisture and temperature controls, which are critically important for sensitive production environments. Offers portable and practical use.

- The interior is made from stainless steel.

ISO 139 · ASTM D1776

TXL-NEM-006

Halogen Moisture Analyser Precisa PBM 60-HR (0.1 mg)



Swiss-made Precisa Series 530 halogen moisture analyser. 124 g capacity, 0.1 mg / 0.001 % readability, 50–230 °C temperature range. Suitable for critical samples with very low moisture content and for solids determination in coatings and dispersions.

- Capacity: 124 g.
- Readability: 0.1 mg / 0.001 %.
- Repeatability: 0.05 % with a 2 g sample, 0.01 % with a 10 g sample.
- Linearity: 1.5 mg.
- Temperature range: 50–230 °C, 1 °C steps.

General Laboratory Equipment

TXL-GEN-001

Light Assessment Cabinet (D65/TL84/UV/A)



A light cabinet for visual colour comparison and assessment under standard light sources. Four- or five-source configurations and different cabinet sizes are available by model.

- Cabinet sizes: 60 cm, 120 cm and 150 cm options.
- Standard light sources (4-lamp model): D65, TL84, INC-A and UV.
- D65 (6500 K) daylight simulation, the international reference.
- TL84 (4000 K) store and showroom fluorescent lighting.
- INC-A (2450 K) domestic incandescent lighting.

ISO 3664 · ISO 105-A01

TXL-GEN-002

UV Weathering / Ageing Tester



Uses fluorescent UV lamps, temperature and moisture cycles for accelerated material weathering. Condensation and water spray steps simulate outdoor exposure.

- UV lamps are used to simulate the effects of sunlight, also simulated with dew and rain, water vapour and water spray. USB connection data output is standard.
- The computer program and printer is optional.

ASTM G154 · ASTM D4329 · ISO 4892-3 · ISO 16474-3 · EN 927-6

TXL-GEN-003

Laboratory Drying Oven



Laboratory drying oven. Ambient +5 °C to 250 °C for oven and steriliser models, ambient +5 °C to 80 °C for incubator models. A functional device that meets the basic needs of every textile laboratory, offering regular and flexible operation capabilities.

- Models: oven-steriliser, fan-assisted oven-steriliser, fan-assisted oven with adjustable fan speed, and incubator.
- Internal volume options: 400×400×350 mm and 600×480×420 mm.
- Temperature range for oven and steriliser models: ambient +5 °C – 250 °C.
- Temperature range for incubator models: ambient +5 °C – 80 °C.
- Programmable PID microprocessor control system with digital display.

ISO 139

General Laboratory Equipment

TXL-GEN-004

Orbital Shaker

Orbital motion specimen mixing and homogenization. A functional device that meets the basic needs of every textile laboratory, offering regular and flexible operation capabilities.

- Shaking speed is set opto-electronically; the motor handles loads up to 10 kg.
- ISO 105-E04



TXL-GEN-005

Magnetic Stirrer

Magnetic field solution stirring device. A functional device that meets the basic needs of every textile laboratory, offering regular and flexible operation capabilities.

- Mixing capacity is 1, 5 lt.
- It is made by stainless steel.



TXL-GEN-006

Magnetic Stirrer with Heating

Magnetic stirring with integrated heating plate. A functional device that meets the basic needs of every textile laboratory, offering regular and flexible operation capabilities.

- Mixes and heats laboratory samples simultaneously.
- Stirring speed and temperature are controlled independently.
- Temperature control range: 50–250 °C.
- Analogue and digitally controlled models are available.
- Some models support an external thermometer.



General Laboratory Equipment



TXL-GEN-007

Overhead Mechanical Stirrer

Top-drive mechanical stirrer for viscous solutions. A functional device that meets the basic needs of every textile laboratory, offering regular and flexible operation capabilities.

- Mixing speed can be adjusted between 50 and 2000 RPM, and mixing time can be adjusted between 00.01 and 99.99 min.



TXL-GEN-008

pH Meter

Laboratory precision pH measuring instrument. A functional device that meets the basic needs of every textile laboratory, offering regular and flexible operation capabilities.

ISO 3071 · AATCC 81



TXL-GEN-009

Conductivity Meter

Solution conductivity measuring instrument. A functional device that meets the basic needs of every textile laboratory, offering regular and flexible operation capabilities.

- RS232 interface allows for connection to external devices for data storage or transfer.

General Laboratory Equipment

TXL-GEN-010

Viscometer

Viscosity measurement of solutions and liquids. A functional device that meets the basic needs of every textile laboratory, offering regular and flexible operation capabilities.

- Measuring gap is between 10 to 100.000 cp, rotor speed can be selected as 6, 12, 30, or 60 rpm.

ISO 1628



TXL-GEN-011

Accessories Endurance Test Drum

Durability test of buttons and accessories in washing machine. A functional device that meets the basic needs of every textile laboratory, offering regular and flexible operation capabilities.

ISO 8096



TXL-GEN-012

Electronic Pipette

Automatic electronic pipettes. Single and multi-channel. A functional device that meets the basic needs of every textile laboratory, offering regular and flexible operation capabilities.



General Laboratory Equipment

TXL-GEN-013

Melt Flow Index (MFI) Tester



Melt flow index measurement of plastic materials. A functional device that meets the basic needs of every textile laboratory, offering regular and flexible operation capabilities.

- Temperature range: + 100 °C to + 400 °C.
- Temperature Accuracy: $\pm 0.1^{\circ}\text{C}$.
- Optional Weight: 25kg.
- The device has a 4.3 color touch screen.
- Weights given as standard together with device: 1 unit of 0.325 kg, 1 unit of 1.2 kg, 1 unit of 2.16 kg, 1 unit of 5 kg, 1 unit of 5 kg (to complete 10 kg).

ISO 1133 · ASTM D1238

TXL-GEN-014

Hot Plate



A hot plate used in general laboratory testing. Available with 400×600 mm, 300×450 mm and 300×300 mm surfaces. Heating range is 50–300 °C. Supplied with either an analogue thermostat or a digital controller.

- A hot plate used in general laboratory testing.
- Available with 400x600 mm, 300x450 mm and 300x300 mm surfaces.
- Heating range is 50-300 °C.
- Supplied with an analogue thermostat or a digital controller.

TXL-GEN-015

Conditioning Cabinet



Designed for creating artificial climate conditions, seed germination, plant growing and sample storage in textile, plastics and similar laboratories. The interior is stainless steel. Parameters can be set for the desired duration, with humidity distributed via heater-cooler coils.

- Designed for creating artificial climate conditions, seed germination, plant growing and sample storage.
- The interior is made of stainless steel.
- Humidity is distributed via heater-cooler coils.

General Laboratory Equipment



TXL-GEN-016

Conditioning Air Unit (Room Type)

Temperature and humidity controlled room-type conditioning unit that provides a standards-compliant test environment for industry, R&D, university, medical and textile laboratories. Available in different volume capacities; request the technical datasheet for the capacity you need.

- Provides temperature and humidity controlled conditioning for industry, R&D, university, medical and textile laboratories.



TXL-GEN-017

Colour Viewing Station (Color Proof Station)

Colour evaluation station designed to ensure colour accuracy in the graphics, printing, packaging and textile industries. Fully compliant with ISO 3664:2009, it provides consistent and repeatable colour comparison in pre-press and post-press quality control. Selectable light sources (D50, D65, TL84, UV-A) simulate different lighting conditions; a UV-only mode detects optical brighteners.

- Overall dimensions (L x W x D): 2270 x 1240 x 1220 mm.
- Light sources: D50, D65, TL84, UV-A and UV.
- Selectable light sources: D50, D65, TL84, UV-A black light.
- UV-only mode: UV-A for the detection of optical brighteners.
- 2000 lux illumination in accordance with the ISO standard.

ISO 3664



TXL-GEN-018

Coefficient of Friction Tester (TL-COF-01)

Measures the static and kinetic coefficient of friction of plastic film, flexible packaging, paper, board, textiles and similar flat materials by the horizontal sled method. One specimen is fixed to the test table and the other under a 200 g sled; a load cell measures friction force continuously. Static COF is taken from the first force peak, kinetic COF from the mean over the sliding interval. Separate recipes for ASTM D1894 and ISO 8295.

- Method: horizontal plane sled method; static and kinetic COF.
- Force range: 0–5 N (5 N load cell, 0–10 V transmitter).
- Standard sled: 200 ±1 g · 63.5 × 63.5 mm.
- Stroke: max. 150 mm; 70 mm and 150 mm recipes.
- Standard speeds: 100 / 150 mm/min (selected by recipe).

ASTM D1894 · ISO 8295

General Laboratory Equipment



TXL-GEN-019

D65 LED Tube Lamp (T8, 6500 K)

D65 daylight (6500 K) LED tube lamp for light cabinets and colour assessment. T8 tube, G13 cap, direct mains operation (220–240 V AC). Lengths 60, 120 and 150 cm; 120 cm model 16 W, 1600 lm, CRI 80, 15,000 h life.

- Colour temperature: 6500 K (D65); T8 tube, G13 cap.
- Length options: 60 / 120 / 150 cm.
- 120 cm model: 16 W, 1600 lm, CRI 80.
- Supply: 220–240 V AC, 50/60 Hz; rated current 134 mA; direct mains operation.
- Size (120 cm): 1214 × 28 × 28 mm; life 15,000 h; 50,000 switching cycles.

Consumables

TXL-SRF-001

Grey Scale for Assessing Change in Colour (A02)

Reference scale used to grade objectively the change in colour of a specimen after fastness testing. Compliant with ISO 105-A02, nine pairs of matt grey-white strips.

- Nine pairs of matt grey-white strips.
- Grading steps: 5, 4-5, 4, 3-4, 3, 2-3, 2, 1-2 and 1.
- Grading system in accordance with ISO 105-A02.
- Objective grading of the change in colour resulting from fastness tests.
- Also used for grading tests carried out to light fastness standards.

ISO 105-A02



TXL-TextLabInstruments

TXL-SRF-002

Grey Scale for Assessing Staining (A03)

Reference scale used to grade objectively the staining of the adjacent fabric during fastness testing. Compliant with ISO 105-A03, nine pairs of matt grey-white strips.

- Nine pairs of matt grey and white strips.
- Grading steps: 5, 4-5, 4, 3-4, 3, 2-3, 2, 1-2 and 1.
- Grading system in accordance with ISO 105-A03.
- Objective grading of the degree of staining on the undyed adjacent fabric.
- Ensures comparability of test results between laboratories.

ISO 105-A03



TXL-TextLabInstruments

TXL-SRF-003

Crocking Cloth (Rubbing Fastness Test Cloth)

Standard cotton adjacent cloth used in dry and wet rubbing fastness tests on a crockmeter. Complies with ISO 105-X12 and AATCC 8.

- Standard cotton rubbing (adjacent) cloth.
- Used for both dry and wet rubbing fastness tests.
- Complies with the ISO 105-X12 rubbing fastness method.
- Complies with the AATCC 8 crocking fastness method.
- Supplied in boxed batches, traceable by lot number.

ISO 105-X12 · AATCC 8



TXL-TextLabInstruments

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