

Fabrics & Garment Testing

Testing Equipment for Fabrics & Garments

Applicable for textiles materials, accessories of garments and other textiles related products, including fabrics, leather, non-woven, zippers, button, etc

To testing its physical characteristics, including:

Abrasion, Pilling, Snagging, Stretch, color Fastness, Burst, Tear, Inflammability, Sample Dyeing Test, lab spinning & weaving, Air / Water Vapor Resistance, Dyeing & Finishing, shrinkage / dimensional change, Water penetration, flexing, etc.

Comply with ISO 2758, ISO 13938-1, ASTM D737, ISO 9237, ISO 97231, EN ISO 12945-2/12947-1/12947-2/12947-3/12947-4, ISO 12945-1, BS 5811, etc.



M001A Universal Testing Machine (Dual Column)

To determine tensile, tension, compression, bend, shear, bonding strength, break strength, peeling, tearing, cyclic and flexure, etc. for rubber, plastics, leather, metal, composites, nylon line, fabrics, paper, aviation, automotive, biomedical, elastomers, packaging, construction, petrification, aviation, petrification, electrician, vehicle, etc.

Max. Capacity 10N, 20N, 50N, 100N, 200N, 500N, 1KN, 2KN, 5KN, 10KN

Stroke Space 1100mm / 900mm

Standards

ISO13934-1, 13934-2, 13935-1, 13935-2, 13936-1, 13936-2, 13936-3, 13937-2, 13937-3, 13937-4, 1421, 2411, 2062, 4674-1, 5082, 9073.3, 9073.4, 9073.18, ASTM D 434, D751, D885, D1683, D2256, D2261, D2724, D2731, D3787, D4034, D4964, D5034, D5035, D5587, D5733, D5735, BS 2543, 2576, 3320, 3424, 4303, 4304, M&S P11, P12, P13, P14; JIS L1096



M001C-1 Universal Testing Machine (Dual Column)

It is used to analyze and test the mechanical properties of various textiles, rubber, shoe material, leather, metal, building material and so on. This kind of equipment is the model with high precision, perfect function, stable performance and high cost performance in domestic mechanical performance testing instruments at present.

Max. Capacity 20KN

Stroke Space 1100mm / 900mm

Standards

ISO13934-1, 13934-2, 13935-1, 13935-2, 13936-1, 13936-2, 13936-3, 13937-2, 13937-3, 13937-4, 1421, 2411, 2062, 4674-1, 5082, 9073.3, 9073.4, 9073.18, ASTM D 434, D751, D885, D1683, D2256, D2261, D2724, D2731, D3787, D4034, D4964, D5034, D5035, D5587, D5733, D5735, BS 2543, 2576, 3320, 3424, 4303, 4304, M&S P11, P12, P13, P14; JIS L1096



M001C-2 Universal Testing Machine (Dual Column)

It is used to analyze and test the mechanical properties of various textiles, rubber, shoe material, leather, metal, building material and so on. This kind of equipment is the model with high precision, perfect function, stable performance and high cost performance in domestic mechanical performance testing instruments at present.

Max. Capacity 50KN

Stroke Space 1100mm / 900mm

Standards

ISO13934-1, 13934-2, 13935-1, 13935-2, 13936-1, 13936-2, 13936-3, 13937-2, 13937-3, 13937-4, 1421, 2411, 2062, 4674-1, 5082, 9073.3, 9073.4, 9073.18, ASTM D 434, D751, D885, D1683, D2256, D2261, D2724, D2731, D3787, D4034, D4964, D5034, D5035, D5587, D5733, D5735, BS 2543, 2576, 3320, 3424, 4303, 4304, M&S P11, P12, P13, P14; JIS L1096



M002A Single Column Universal Tensile Testing Machine

To determine tensile, compression, bending, shearing, bonding strength, peeling, tearing, etc. For rubber, plastic, leather, metal, nylon line, yarn, fabric, paper, aviation, package, construction, petrification, electrician, vehicle and other materials.

Load cell 10N, 20N, 50N, 100N, 200N, 500N, 1KN, 2KN, 2.5KN

Test Speed 0.01-500mm/min 0.01-1000mm/min

Standards

ISO13934-1,13934-2,13935-1,13935-2,13936-1,13936-2,13936-3, 13937-2,13937-3,13937-4,1421, 2411, 2062, 4674-1,5082, 9073.3, 9073.4, 9073.18; BS 2543, 2576, 3320, 3424, 4303, 4304, M&S P11, P12, P13, P14; JIS L1096, GB/T 3923.1/2; GT/T 3917.1/2/3/4/5; GT/T 19976; ASTM D 5035; ASTM D 2261, etc.



M002B Ball Burst Strength Tester

To determine ball burst and extension for cotton fabric, socks, gloves and elastic fabric.

Force Range 2500N (1%~100% of Full Range)

Speed Range 0.01-500mm/min

Standards

GB/T 19976, ASTM D 3787, FZ/T 01030, FZ/T 60019 EN 12332-1



M003A Electronic Elastic Strength Tester

To determine elastic strength property for materials including various knitted underwear, socks, spandex core, spandex, hammock and elastic cord, etc.

Range 50N / 500N

Standards

FZ/T 01034, FZ/T 01062, ASTM D4964, BS 4592



M003B Electronic Peeling Tester

To determine peeling strength property between adhesive lining cloth, glued laminated fabric, hot melt adhesive lining and apparel fabric, between lining cloth and fabrics, between adhesive coatings.

Range 50N 100N 500N

Standards

FZ/T 01085, FZ/T 80007.1, AATCC 136, FZ/T 01010, FZ/T60011



M003C Stocking Tensile Tester

Used to test the horizontal and vertical extension performance of various socks.

Standards

FZ/T 73001



M004A Snap Button Pull Tester

To determine the holding or breaking strength of the snaps, buttons or fixed accessories attached onto garments. Aim at providing the strict reference basis for garments manufacturers, to ensure the snaps, buttons and fixed accessories can be fixed on garments properly, so as to prevent from snap button fall off and swallow risks for infants.

It is widely used in snaps, buttons, toys testing for many brands like H&M, NIKE, NEW BALANCE, LIVIS, NEXT, GAP, etc.

Standards

16 CFR 1500.51~53 ASTM F963 EN71-Part 1 M&S P115A



M006A Electronic Elmendorf Tearing Tester

To determine the tearing resistance strength (Elmendorf method) for various textiles. Also available for thick paper, plastic cloth and electrical insulating tapes.

Range of Tearing Force 16N / 32N / 64N

Standards

GB/T 3917.1; FZ/T60006; FZ/T75001; ISO1974/9290; ASTM D1424/5734



M006B Digital Elmendorf Tearing Tester

To determine the tearing resistance strength (Elmendorf method) for various textiles. Also available for thick paper, plastic cloth and electrical insulating tapes.

Range of tearing force 1600CN, 3200CN, 6400CN, 12800CN

Standards

Textiles: GB/T 3917.1; ASTM D1424, DIN 53862; EN ISO 13937-1; ISO 4674-2; ISO 9290; M&S P29; NEXT 17; NF G07-149

Paper: GB/T455, ASTM D689, BS 4468, DIN 53128, CSA D9, ISO 1974, EN 21974, PAPTAC D9, JIS P8116, SCAN P11, UNI 6444, APPITA P400, TAPPI T414

Plastic: GB/T 11999, ISO6383-2, ASTM D1922, NF T54 141, JIS K7128-2

Non woven: ASTM D5734, WSP 100.1



M006C Elmendorf Tearing Tester

To determine the tearing resistance strength (Elmendorf method) for various textiles. Also available for thick paper, plastic cloth and electrical insulating tapes.

Range of Tearing Force 16N / 32N / 64N

Standards

GB/T 3917.1; FZ/T60006; FZ/T75001; ISO1974/9290; ASTM D1424/5734



M007A Hydraulic Bursting Strength Tester

Adopts hydraulic method to determine the burst strength and burst expansion property for various textiles, including knitted fabric, woven fabric and non-woven fabric, laminated fabric under standard or wet condition.

Range 2.00Mpa or 10.00Mpa

Test area 7.3 cm² (Φ30.5mm), 10 cm² (Φ35.7mm), 50cm² (Φ79.8mm), 100 cm (Φ112.8mm) (optional)

Standards

ISO 13938-1, GB / T 7742, FZ/T 60019, FZ/T 01030,
BS 4768, Woolmark TM29, WSP 30.1, JIS L 1018.6.17,

ASTM D 3786, etc



M007B Pneumatic Bursting Tester

Adopts pneumatic method to determine the burst strength and burst expansion property for various textiles, including knitted fabric, woven fabric and non-woven fabric, laminated

Fabric under standard or wet condition.

Range 2.00Mpa

Standards ISO 13938-2, GB / T 7742, FZ/T 60019, ISO 2960, ASTM D 3786, etc



M008A Martindale Abrasion and Pilling Tester

To determine multiple abrasion and pilling tests for various textile structures, including non-woven fabric, carpets, leather, socks, gloves, collars, cuffs, wood, high pressure laminates, painted surfaces, etc.

4, 6, 8, 9 working positions and 2 counting Methods of count up & count down are available.

Working positions: 4 6 8 9

Standards

GB/T4802.2-2008, GB/T13775, GB/T21196.1, GB/T21196.2, GB/T21196.3, GB/T21196.4, FZ/T20020, ISO12945.2, 12947; ASTMD4966, 4970, IWS TM112



M009A Taber Abraser

To determine the wear resistance(including mass loss, thickness loss, and transmittance etc.) of all kinds of structures including textiles, paper, glass, metals, paints, plated surfaces, coated materials, leather and rubber.

Working positions 1 or 2

Standards

ASTM D3884, D4060, ISO 5470-1, ISO 7784-2, DIN 53754, ANSI INCITS 332, QC/T 236, GB/T 1768



M010 ICI Pilling and snagging Tester

To assess surface pilling degree for fabrics particularly wool knitted fabric. The color touchscreen controller has all the standard tests preloaded so tests can be started with just a couple of touches. Magnetic backed cork liners make cork changes easy without the need to remove the box from the drive.

Number of pilling boxes 2 Boxes 4 Boxes 6 Boxes 9 Boxes

Standards

GB/T4802.3, ISO 12945.1, BS5811, JIS L1076, IWS TM152



M011 Random Tumble Pilling Tester

To determine the pilling and fuzzing property of textile which random tumble inside roller accorded with standard ASTM D3512. Along with the critically important cork liner and high-speed impeller for agitating the test samples for preset test time, compressed air is required to assist in the tumbling action.

Test chambers 2 / 4

Standards

GB/T4802.4; ISO12945.3; ASTM D3512; ASTM D1375



M012 Spray Rating Tester

To determine the surface wetting resistance (spray rating) of fabrics which has or has not been processed with water resistance. Whole set is in stainless steel material which is rust-proof and durable. And equipped with high precision spray nozzle to ensure water flow meet with the standards.

Standards

GB/T4745; ISO4920; AATCC22; JIS L1092



M013 Universal Wear Tester (Stoll Quartermaster)

To determine resistance to laboratory wear and abrasion of such materials as woven and knitted fabrics, footwear, napped and pile fabrics, hosiery, felt, non-woven and coated fabrics, yarns, threads and cordage, plastic films, rubber sheeting, leather, paper and, many other materials.

Standards

ASTM D3514, D3885, D3886; AATCC 119, 120; JIS L1096



M014 Circular Locus Tester

The Circular Locus Tester is used to assess surface deterioration and quality of fuzzing and pilling property for fabrics (wool, chemical fiber, mixed, knitted and woven fabrics).

Standards

GB/T 4802.1, JJG 040-1990

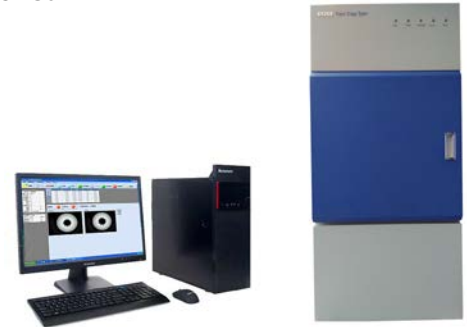


M020 Automatic Fabric Drapability Tester

To determine the dynamic and static drapability property (including drape coefficient, lively rate, surface waviness and aesthetic coefficient) for various fabrics.

Standards

BS 5058, FZ/T01045



M021 Fabric Formaldehyde Content Tester

To quickly measure the formaldehyde content for various textiles. Formaldehyde determination value and absorbance value can be measured via extraction method according to national standard test methods.

Standards

GB/T2912.1; GB18401; ISO14184-1



M021A Automatic Fabric Formaldehyde Content Tester

To quickly measure the formaldehyde content for various textiles.

Standards

GB/T2912.1
GB18401
ISO14184-1/2
AATCC112



M022A Crease Recovery Tester and Loading Device

To determine crease recovery performance of fabrics by creasing in a loading device for a predetermined time using a weight suitable for the test method specified (BS, ISO, AATCC). After transferring the specimen to the clamp of the tester, the specimen is allowed to recover and the angle of recovery is recorded.

Standards

M&S P22, AATCC 66; GB/T 3819



M022B AATCC Wrinkle Recovery Tester

To determine a fabric's appearance to recover after wrinkling under a predetermined load for specified time. Applicable for to any fiber made of pure spinning or blended fabric.

Standards

AATCC 128, ISO 9867



M023B High pressure-servo Hydrostatic Head Tester

To test the waterproof property for fabric, Such as canvas, medical non-woven material, coated fabric, geosynthetic materials, cloth, tent cloth, tarpaulin and rainproof clothing fabric.

Testing range 200kpa 500kpa 1000kpa (Optional)

Standards

GB/T 4744, FZ/T 01004, JIS L 1092, ISO 811, ISO1420, BS EN20811, AATCC127, DIN 53886, ERT120-1 160-0,AFNOR G07-057



M023C Digital Hydrostatic Head Tester

To test the waterproof property for fabric which have been waterproof processed, such coating cloth, tent cloth, tarpaulin, rainproof clothing fabric and non-woven fabric material, etc.

Testing range 500pa-200kpa 5kpa-500kpa

Sample test area 100cm² 7.8cm²(Optional)

Water pressure rising rate 1kpa -30kpa 1kpa-100kpa

Standards

GB/T4744; FZ/T01004; AATCC 127; DIN 53886; JIS L1092



M023D Hydrostatic Head Tester

Used for testing the anti-seepage property of various fabrics (such as canvas, coated cloth, tent cloth, tarpaulin, waterproof clothing cloth and geotextile material, etc.) treated with waterproof.

Standards

GB/T 4744, AATCC 127, GB/T 24218.16



M023E Portable Suter Tester

The machine is used to test the water pressure of waterproof suit series, raincoat series, tent series, waterproof bag series, waterproof glove series and other products when adding certain pressure. Through the pressure gauge, we can know the pressure of the tested object and whether the tested object is qualified under this pressure.

Standards

GB4744-84, ISO -811, GB4706.8-2008-21.110.2



M024C ICI Mace Snag Tester

Used for evaluating the stitching degree of outerwear fabrics and other easily stitched fabrics, especially for chemical filament fabrics and textured yarns.

Standard

GB/T 11047, ASTM D 3939



M025BN UV Accelerated Weathering Tester

To simulate the destructive effect for materials from sunshine, moisture and temperature. Materials aging including fade, loss of gloss, low intensity, cracking, peeling, pulverization, and oxidation, etc. UV accelerated weathering tester simulate sunshine, condensation and natural moisture condition, and samples stay inside this condition can be equaled to stay outdoor for several months or years.

The Fluorescent Ultra-Violet Lamp of UV aging chamber can reappear the effect of sunshine, Condensation and water spray system can reappear the effect of rain and dew.

Control Type LCD Control Touch Screen Control

Standards

ASTM G 153, ASTM G 154, ASTM D 4329, ASTM D 4799,
ASTM D 4587, SAE J2020, ISO 4892



M026 Dry Cleaning Cylinder

To determine appearance color fastness, size change and peeling strength property after dry cleaning via organic solvent and alkaline solution for hot-melt adhesive padding cloth and various textiles.

Additionally, combine with various flammability test to preprocess samples before doing flammability test.

Standards

FZ/T01083, AATCC 162, 16 CFR 1610



M026N Dry Cleaning Cylinder

To determine appearance color fastness, size change and peeling strength property after dry cleaning via organic solvent and alkaline solution for hot-melt adhesive padding cloth and various textiles.

Additionally, combine with various flammability test to preprocess samples before doing flammability test.

Standards

FZ/T01083 AATCC 162 16 CFR 1610



M027A Digital Air Permeability Tester

To test the air permeability of various woven fabrics, including industries fabrics, non-woven and other breathable fabric.

Standards

GB/T5453 GB/T13764 ISO9237 ISO7231 ISO5636

ASTM D737 DIN 53887 JIS L1096 BS5636



M027B Full Automatic Air Permeability Tester

To test the air permeability of various woven fabrics, including industries fabrics, non-woven and other breathable fabric.

Standards

GB/T 5453, GB/T 2624, GB/T 13764, GB/T 18422, ISO 9237, DIN 53887, JIS L1096, ISO 9073, ISO 7231, ISO 5636, BS 5636, ASTM D737



M028 Pilling Assessment Box

To determine the pilling results under specified light condition of this pilling assessment box for fabrics. The pilling results including Martindale Pilling, Random Tumble Pilling, ICI Pilling, circular locus method pilling test, Brush/Sponge Pilling) or snagging test(ICI Snagging).

Standards

GB/T 4802.3, ISO12945, ASTM D3512 , ASTM D4970



M029 Fabric Water Vapor Transmission Tester

To determine water vapor permeability (waterproofing and moisture-penetration performances) for various fabrics (including moisture permeable coated fabrics) and Non-woven fabric for garment usage including bat wool, space cotton, etc.

Standards

GB/T12704, ASTM E96, JIS L1099, BS 7209, ISO 17699, ISO15496



M030 Textile Ultraviolet Prevention Performance Tester

To determine textile UV transmittance and UV proof property, Textiles ultraviolet protection factor(UPF) can be obtained directly from test.

Standards

GB/T 18830, AATCC 183, AS/NZS 4399, BS 7914, PREN13758



M031A Zipper Fatigue Tester

This device is to test whether zipper can bear the specified times of reciprocating pull action, under the horizontal and vertical tension effect. During testing, machine drive the puller of zipper at constant speed, undergoes reciprocating movement of 30 times per minute until reaches specified test times. So as to assess the quality of zipper.

Standards

CNS -1083 , BS 3084 , QB/T2171



M031B Zipper Rotation Testing Machine

Used for metal, plastic, nylon zipper pull head and anti torsion test.

Standards

QB/T2171, QB/T2172, QB/T2173



M032 Downproof Tester

To determine the penetration through fabrics property for inner lining material of cold protective clothing and bedding article, down feather or fiber.(Abrasion method)

Standards

BS EN 12132-1, GB/T 14272, GB/T 12705-1



M033 Automatic Feather And Down Filling Power Tester

To test the filling power of down feather and the products filling materials.

Test Principle

Pressure on the sample by dropping the platen is applied to the filling material at a constant speed and after a stipulated time the level of the platen is noted. The massic volume is calculated with regard to the height and the known diameter of the graduated cylinder.

Standards

GB/T 14272; GB/T 10288; IDFB-FP, FZ/T80001; JISL1903; BSEN12130; QB/T 1193; QB/T 1194; QB/T 1195; QB/T 1196; KSK 0820



M034 Rain Tester

UTS rain tester is designed to test rain penetration protective capability for various textiles material particularly for garment fabric materials.

Standards

AATCC 35



M034B Rain Tester/Water Repellency Tester (Pressurized Water Pumps Type)

UTSTESTER Water Repellency Tester determines the penetration resistance of fabrics at different intensities of water impact, testing for waterproofness and water resistance.

Standards

GB/T 23321, ISO 22958, AATCC 35



M035A Digital Thickness Tester

To measure thickness of textile and footwear materials.

Test Principle

Place sample between upper and bottom pressure plate with adding a certain of load), and dial indicator will display the thickness of test sample.

Standards

ASTM D1777 Method 1, 2, 5



M035B Electronic Thickness Tester

To measure the thickness of various woven fabric, knitted fabric and uniform thin materials.

Standards

ASTM D1777; GB/T3820; ISO 5084/9073/9863; FZ/T01003



M037 Bean Bag Snag Tester

Bean Bag Snag Tester, to determine snagging resistance for knitted and woven fabrics. It complies with ASTM D5362, JIS L1058, etc

Standards

ASTM D5362, JIS L1058, M&S P21A

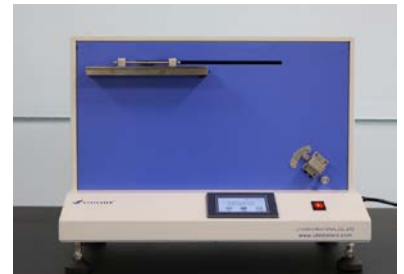


M038A Full-Automatic Fabric Stiffness Tester

To test stiffness property for fabrics including cotton, wool, silk, linen, chemical fiber, knitted fabrics, non-woven fabric, coating fabric, etc. As well as for such soft materials as paper, leather, thin film, etc.

Standards

ASTM D 1388, IS09073-7, BS EN22313, ZB WO4003, GB/T18318



M038B Digital Fabric Stiffness Tester

To test stiffness property for fabrics including cotton, wool, silk, linen, chemical fiber, knitted fabrics, non-woven fabric, coating fabric, etc. As well as for such soft materials as paper, leather, thin film, etc.

Standards

ASTM D4032



M039 Wyzenbeek or Oscillatory Abrasion Tester

To determine the abrasion resistance property for textiles, leather, leather cloak, so as to provide the reference for improving quality.

Control Panel LCD / Touch scree

Standards

ASTM D4157, BS EN ISO 12402-7, FTMS 191A 5304



M041 Pick Counter

Pick Counter is applicable for measuring the warp, weft and density for various kinds of textiles in textiles factories, knitting mill, science research units fields.

Standards

GB/T4668; ISO7211.2



M041A Pick Counter



M041B Pick Counter

M041C Semi-Auto Pick Counter

Pick Counter is designed to test the yarn density of woven fabric, woven silk, screen cloth and knitted fabric automatically and precisely. Also used to measure the thickness of single yarn and the dimension of fabric core. Data is saved by generating reports instantly.

Sensor: 2.0 Mega pixels

Illumination: 4 Led lights

Focusing: manual focus

Compatible system: winXP、win7/8/10/32/64

Interface: USB 2.0

Material: E-coating metal

Language: English, Chinese



M042 Accelerator Abrasion Tester

To measure the thickness of various woven fabric, knitted fabric and uniform thin materials. This tester is designed to evaluate the resistance of fabrics and other flexible materials to abrasion.

Standards

AATCC 93



M045 Thermal Insulation Tester / Sweating Guarded Hotplate

M045 Thermal insulation tester/Sweating Guarded Hotplate is used to simulate the process that human skin produces heat and water vapor penetrate fabrics. Special designed to determine the Thermal resistance (heat preservation) and moisture resistance (moisture conductivity) properties under the constant environment, which is applicable for fabric, thin film, coating, foamed plastic, leather, composite material and its garments, quilts, sleeping bags, interior decoration materials, other textiles products.

Standards

ASTM D1518; EN ISO 11092; ASTM F1868-09; ASTM F1868-02; JIS L1096; GB/T 11048; etc.



M046 Retroreflection and Chromaticity Tester

To assess the reflection intensity(Retroreflective property) of occupational high visibility warning materials under dry and rain wet state, and measure specimen surface' s coefficient of retroreflection. It is applicable to the visibility warning and reflective film materials for all kinds of positions, ensuring the safety of personnel.

Standards

EN ISO 20471:2013 (Replace EN471), ANSI/ISEA 107-2015,
GB 20653-2006 , GB/T 18833



M047N Antistatic Test Equipment

To determine the surface Specific Resistance(surface resistivity), vertical resistivity, Volume resistance (volume resistivity) for various kinds of textiles, garment, thin film and its insulating materials, so as to reflect test materials' electrostatic performance.

Standards

GB12014, ESD STM2.1.
GB/T22042, EN 1149-1, AATCC 76.
GB/T22043, EN 1149-2.
GB/T 14342.



M048B AATCC 201 Drying Rate Tester (Heated Plate Method)

M048B AATCC 201 Drying Rate Tester (Heated Plate Method), is designed according to the requirements of the American AATCC 201 test standard, to quick determine textiles dry rate.

Standards

AATCC 201

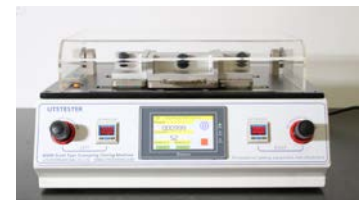


M049 Scott Type Crumpling Testing Machine

This tester is applicable to detect crumpling resistance of artificial leather and fabric.

Standards

GB/T 8948, GB/T 8949, JIS K6404-6, JIS L1096



M061 Steaming Shrinkage Tester

Used for testing the dimensional change of woven fabric and knitted fabrics processed by steaming. Measure the dimension change generated under the condition of dissociating steaming processing.

Standards

FZ/T20021



M063 Button Impact Tester

M063 Button impact tester is to determine the resistance to impact ability of plastic button, etc.

Standards

ASTM D5171

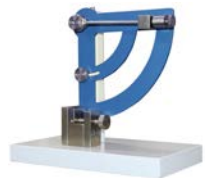


M063 Button Impact Tester

Suitable for all kinds of buttons with diameter of 10mm and above, used to test the performance of buttons against impact in the process of clothing production and use.

Standards

GB/T 22704-2008



M064 Towel Water Absorption Tester

Used for testing the water absorption of towel, face towel, square towel, bath towel, terry quilt and other towel products.

Standards

ASTM D4772 GB/T 22799



M065 BS 4294 Fabric elongation tester

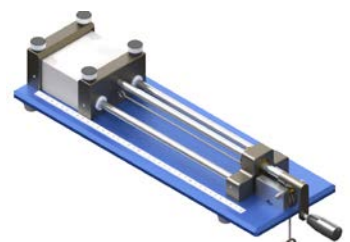
This tester is suitable for testing the elongation of woven and knitted fabrics.

Working principle

The two ends of the sample are evenly clamped in the two clamps before and after the instrument, and a certain distance is maintained. A certain tension force is applied to the moving clamp for a certain period of time. The elongation of the sample is calculated by the distance before and after the sample is stretched.

Standard

BS 4294



M080C Digital ASTM D3107 Fabric Stretch and Recovery Tester

Used to measure growth, elongation and recovery (load and elongation) of low elastic knitted fabrics. That is to say, under certain conditions, the length of the sample after a certain amount of load is measured, and the tension is applied to the sample within a certain period of time, and the difference between the length after removed the tension and the original length. It is mainly used for low elastic knitted fabric such as swimsuit, sports suit, loose body suit or other tight fitting.

Standards

ASTM D310



M080D ASTM D2594 Fabric Stretch and Recovery Tester

Used to measure the growth, elongation and recovery of low elastic knitted fabrics.(constant load performance and elongation performance).

Standards

ASTM D2594



M080E Digital Fabric Stretch and Recovery Tester

Used to measure growth, elongation and recovery (load and elongation) of low elastic knitted fabrics. That is to say, under certain conditions, the length of the sample after a certain amount of load is measured, and the tension is applied to the sample within a certain period of time, and the difference between the length after removed the tension and the original length. It is mainly used for low elastic knitted fabric such as swimsuit, sports suit, loose body suit or other tight fitting.

Standards

ASTM D3107 ASTM D2594



M104A De Mattia Flexing Tester

This tester is suitable for testing the resistance to repeated flexure and failure of coated fabric, providing a reference for improving the fabric.

Standards

ISO 7854 Method A, BS 3424, GB/T 12586



M104BN Schildknecht Method Flexing Machine

To determine the resistance to repeated flexing to rubber or plastic-coated fabric, providing reference for improving the quality of fabric.

Standards

ISO 7854 Method B, BS 3424, GB/T 12586



M104C Crumpleflex Tester

This tester is suitable for testing the flexural resistance of rubber or plastic coated fabric with the method of wrinkle and flexure

Standards

ISO 7854 Method C, BS 3424, GB/T 12586



Sample Preparation

M018 Sample Cutter with Balance

GSM Sample round cutter (Cutting area: 100cm², diameter: Φ112.8mm, thickness: 5mm)

Balance: Weighing range: 300g, Weighing accuracy: 0.01g

Standards accessories

Schroder spare blades (Made in Germany) 4pcs

Cutting mat 1pc



M018P Hand-press Sample Cutter

Hand press type GSM Cutter is the sample round cutter for cutting all kinds of textile, such as cotton, woolen, polyester, knitting, etc. It is also suitable for cutting leather, paper, paperboard and aluminum foil.

The instrument is simpler and smaller, it can quickly and accurately cut the standard area about 100 square centimeters, 5mm thickness.

Cutting mat and spare blades are equipped.



M018CDE Circular Sample Cutter

Circular Fabric Sample Cutters are used to cut various Wool Fabric, chemical fiber, cotton pinning and knitted fabrics.

Cutting diameter $\Phi 38\text{mm}$ $\Phi 90\text{mm}$ $\Phi 140\text{mm}$



M019 Pneumatic Sample Press

To cut the samples with specified dimension which is combined with abrasion, pilling, strength, washing, stiffness test, etc. Used to cut the round shape or irregular samples of various wool, cotton, chemical fiber and knitting. 125mm air cylinder equipped.

Standards

ASTM D3776/2646, ISO 3801, BS 3424/2471, BS EN 12127, M&S P65/65A



M095 Manual Cut Table

To cut various textiles, fabrics including cotton, fur, silk, sesame, chemical fiber. Support to make various kinds of sample card, color card, etc.



M096 Hydraulic Swing Arm Cutting Machine

For die cutting shoe upper, insole, plastic bags, hand bags, etc.



Flammability Testing Equipment

Flammability Tester is to determine the flammability degree on the basis of the flammability test results after a variety of materials are tested under different conditions. Our flammability testing equipment is safe and accurate enough to be your best assistant in flammability testing labs. Flammability Tester complies with ASTM D1230, ASTM D6413, FTMS191-5908, BS EN71-2:2006, ISO 15025, FMVSS 302, UL HB, etc.



M015 45 Degree Automatic Flammability Tester

To determine textile damaged area and length at 45 degree condition and the times of touching flame when textile is melted to specified length after heated at 45 degree condition. Stainless steel test cabinet with glass observation panel provided with automatic timing of flame spread in 0.1 second increments from ignition. Automatic or manual flame impingement for 1,5 or 20 seconds.

Standards

16 CFR 1610; ASTM D1230; CA TB117; GB/T 14644; JIS L1091



M016A Horizontal Flammability Tester

To determine the horizontal burn rates and burn resistance of textiles, particularly those for automotive interior use. It is the flammability test about the required time which flame spreads at horizontal direction to the specified distance.

Standards

ISO 3795; JIS D1201; FZ/T 01028; GB 8410; GB/T 20953;
FMVSS 302 ; SAE J369; GMW3232; ASTM D513



M017A Vertical Flammability Chamber

Vertical Flammability Chamber is to determine the flammability resistance property for various flame retardant textiles, including woven fabric, knitted fabric, coating products, laminated products, etc. And measure tendency for textiles for continued combustibility, smoldering and carbonization.

Standards

CFR1615/1616; CA TB117 CPAI 84; GB/T5455;
GB/T13488/13489; GB/T 2408; ISO1210; ASTM D6413



M017B Multi-Purpose Flammability Chamber

Mainly used to test the flammability property for nightwear.

Standards

BS 5722; BS 5438 BS EN 532, 533, BS EN 1103, BS EN ISO 6940, 15025, EN ISO 6941, EN71, ISO 10047, DIN 53438, GB/T 5456, GB/T 5456, 8745 GB/T 8746



M036 Gas Fume Chamber

To determine the colorfastness resistance to chemistry of butane gas or exposed atmospheric nitric oxide generated from combustion of natural gas for all of textiles not including loose fiber.

Standards

AATCC 23, ISO 105-G02, GB/T 11039



M099B Full Automatic Limiting Oxygen Index Tester(LOI)

Used to determine the combustion performance of various textiles, including woven, knitted and non-woven fabrics, as well as plastics, rubber, paper, etc.

Standards

GB/T 2406.2-2009, ISO 4589-2-2006, ASTM D2863, EN45545



M105 Blanket Flammability Tester

To determine the ignition resistance property of blanket fabrics and surface flame spread performance of fabric. A standardized flame is applied to the surface of specimen for a special time under controlled conditions and burning, changing, or discoloration of a paper monitor is noted to classify flammability of tested fabric.

Standards

ASTM D4151



M106 Surface Flash Tester

To determine the flammability property for fluff or fur fabrics (except floor coverings). The fast spread of flame over the surface of the material without ignition of its basic structure, is usually applied to pile or fur fabrics. Swiveling butane burner is traversed across the face of the fabric to determine whether surface flash occurs and to record any damage to the base fabric.

Automatic gas and timing control system include solenoid control gas valve and automatic ignition timer and controls.

Standards

BS 4569

