Fabric Testing

Comfortable and style











2025

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Y511A/B Pick Counter

Application

To determine the number of threads per cm or inch in textile fabrics.

Standards

ISO 7211-2 GB/T 4668

Key Specification

Model No.	Y511A	Y511B
Magnification	10X	10X, 20X



DW512A Digital Pick Counter

Application

To determine the thread density of woven fabrics and loop density of knitted fabrics.

Standards

ISO 7211-2 ASTM D3775

Key Specification

Magnification	1X ~50X
Specimen	Woven and knitted fabrics
Direction	Warp-wise / Weft-wise
Display mode	Thread/10mm, Thread/inch



DW512C Auto Digital Pick Counter

Application

It is suitable for detecting the density of fabrics, including CPI (the number of weft yarns per inch) and WPI (the number of warp yarns per inch), and detecting the skew/slant of fabrics.

Key Specification

Accuracy	≤0.5 thread
Detection range	12 - 600 threads per inch

SM Series Hand-Held Thickness Gauge



Application

To test the thickness of leathers, fabrics, etc.

Key Specification

Model No.	Display Type	Measuring Range
SM-112/114	Dial	0~10mm
SM-115	Digital	0~12.7mm
SM-116	Dial or digital	0~10mm
SM-200	Digital	0~20mm
SM-500	Digital	0~50mm



YG141D Digital Thickness Gauge



Application

To determine the thickness of textiles when under a specified pressure.

Standards

ISO 5084 | ISO 9073-2

Key Specification

Measuring range	0.01~10mm
Feeler Area	2,000mm^2,2500 mm^2

YG141S Digital Thickness Gauge



Application

To determine the material thickness of non-woven fabrics, textiles, felts, geomaterials, paper, floor coverings, leather, foils, etc.

Key Specification

Standard	ISO 5084	ISO 9073-2	ISO 2589	ASTMD1777-1	ASTM D1777-2
Feeler Area	20 cm²	25 cm²	0.785 cm²	1 in²	0.110 in²
Pressure	1 kPa	0.5 kPa	49.1 kPa	4.14 kPa	23.4 kPa



AATCC Shrinkage Tester (Washer & Dryer)

Application

Including the standardized fabric washing shrinkage washer and dryer, recommended by American Association of Textile Chemists and Colorists (AATCC). Used to determine the dimensional stability of fabric or garment after washing, and assess the appearance after washing

Standards

AATCC 88B	AATCC 88C	AATCC 124	AATCC 130	AATCC 135
AATCC 150	AATCC 159	AATCC 172	AATCC 142	AATCC 143

Key Specification

Model	AATCC Washer	AATCC Dryer
Washing Capacity	15kg/33lb	15kg/33lb
Temperature Options	4	3
No. of Washing Programs	12+	/
No. of Washing Options	3	/



Y089E Fully Automatic Washing Shrinkage Tester

Application

Accelerated washing apparatus for knitted and woven fabrics to assess shrinkage in accordance with international test methods.

Standards

ISO 5077	ISO 6030

Key Specification

Washing mode	Front-loading, horizontal tumbling-box type
Program	Built-in program, the customer can select or customize it
Heating power	5.4kw
Load capacity	≤5kg

FY743 Precision Tumble Dryer

Application

To dry various kinds of fabric after being treated by the domestic washing according to ISO 6330.



Standards

ISO 5077 ISO 6330

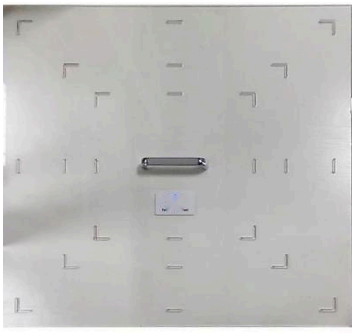
Key Specification

Temperature range	RT~80°C, settable
Timing range	0~150min
Rotating speed	50±3rpm
Rated capacity	6kg
Heating power	2.5kw

Y085 Shrinkage Template

Application

To mark pairs of reference points on textile specimen for assessing dimensional change after a specified treatment.



Standards

ISO 3759 AATCC 135

Key Specification

Measuring length	ISO 3759:	500*500mm/350*350mm
	AATCC TM135:	Option 1: 15"*15"/10"*10" Option 2: 24"*24"/18"*18"



YG 742 Fabric Steam Shrinkage Tester

Application

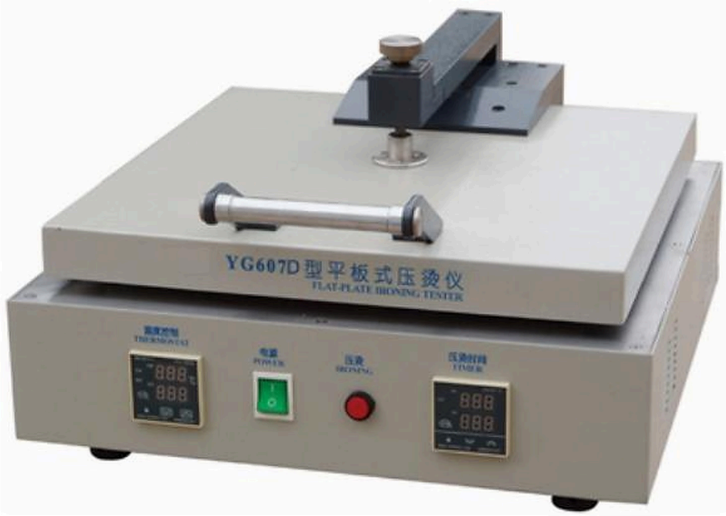
Used for determination of dimensional change of fabrics when subjected to the action of free-steam, it's applicable to test of woven fabrics, knitted fabrics and those fabrics which have poor dimensional stability.

Standards

ISO 3005 FZ/T 20021 IWS TM290 BS 4342

Key Specification

Steam pressure	0~380kPa, adjustable
Steam speed	70±14g/min
Inner steam cylinder size	Φ100, depth 360mm
Sample holder size	290*60*72mm



YG607D Hot Flat Bed Press

Application

A simple heated and thermostatically controlled ironing press for use in testing stability and durability to hot pressing. This product is applicable to determinate change in fabrics exposed to dry heat.

Standards

ISO 9866-2

Key Specification

Press board area	320×320mm
Testing pressure	0.3kPa(adjustable)
Temperature control range	RT~ 220℃±2℃
Test time	1~999s



YG461E Digital Air Permeability Tester

Application

For measuring the air permeability of most types of fabrics.

Standards

ISO 9237	ASTM D737	GB/T 5453
JIS L1096-A	DIN 53887	AFNOR G07-111
WSP 70.1	TAPPIT-251	BS 5636

Key Specification

Test Area	5/20/25/38.3/50/100cm²
Pressure difference	50~500Pa
Measure range	0.5~10,000mm/s
Sample thickness	≤5mm
Test mode	Manual



YG461F Fully Automatic Air Permeability Tester

Application

To automatically determine the air permeability of all kinds of knitted, woven, non-woven, coated fabrics, paper, film, leather, etc.

Standards

ISO 9237	ASTM D737	GB/T 5453
JIS L1096-A	DIN 53887	AFNOR G07-111
WSP 70.1	TAPPIT-251	BS 5636

Key Specification

Test Area	5/20/25/38.3/50/100cm²
Pressure difference	1~1,000Pa
Measure range	0.2~12,000mm/s
Sample thickness	≤12mm
Test mode	Automatic

DW9632 Series Crumple Flex Tester



Application

It is designed to determine the resistance of coated fabrics to damage by repeated flexing, so as to provide reference for improving the fabric.

Standards

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

Key Specification

Number of stations	DW9632A: 2; DW9632B: 4
Rotation speed	(200±10)r/min
Rotation angle	90°±2°
Compression speed	(152±4)r/min
Compression stroke	70mm
Count	0 ~ 999,999 times, settable

YG501S Water Vapour Permeability Tester



Application

It is suitable for testing the water vapor permeability of textiles and textile composites (especially sportswear fabrics).

Key Specification

Working position	8
Turntable rotating	2r/min
Timer	LED display, 0~99h99m



YG501A Water Vapor Transmission Rate Test System

Application

A professional, high efficiency and intelligent water vapor transmission rate (WVTR) test system based on the test dish weighing method test principle.

Standards

ISO 2528 ASTM E96 ASTM D1653

Key Specification

Test Method	Water method	Desiccant method
Test range	0.1 ~ 10,000 g/m^2·24h	0.1 ~ 2,500 g/m^2·24h
Number of test positions	6pcs	
Mouth area of test dish	33cm^2	
Temperature range and accuracy	15 ℃ ~55 ℃(standard)，±0.2℃	
Humidity range and accuracy	10%RH~95%RH，±2%RH	
Air velocity	0.5~2.5m/s	
Gas supply pressure	0.6MPa	

YG501D Water Vapor Transmission Tester



Application

To determine the water vapor transmission of fabric, apparel, etc., under specified conditions.

Standards

ASTM E96	GB/T 12704.1 (Desiccant method)
JIS L1099	GB/T 12704.2 (Water method)

Key Specification

Temperature range	20°C~50°C
Temperature accuracy	±1°C
Humidity range	40%RH~95%RH
Humidity accuracy	±2%RH
Air velocity	(0.02~0.8)m/s, manual adjustable
Test cup rack	2 layers, 9 test cups can be placed on each layer
Rotation speed of rack	5r/min



DW260A Moisture Management Tester

Application

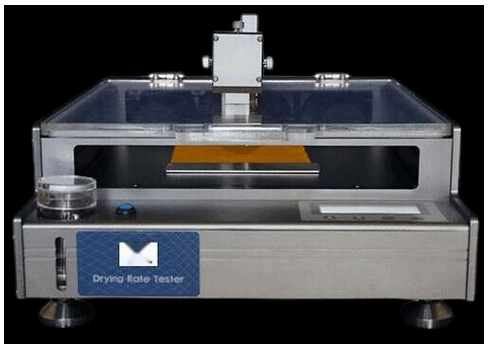
To measure the liquid moisture management properties of knitted and woven fabrics.

Standards

AATCC 195

Key Specification

Test solution quantity	0.2g±0.01g (Fine adjustment by user is allowed)
Test solution conductivity	16mS±0.2mS
Test pressure	960grams



DW261A Drying Rate Tester

Application

To determine the drying time and drying rate of a fabric automatically.

Standards

AATCC 201

Key Specification

Temp.range of IR thermocouple	15~50ºC ± 0.1 ºC
Air speed	1.5m/s ± 0.1m/s
Sample thickness	0~10mm



DW261B Drying Time Tester (Moisture Analyzer Method)

Application

It is intended to evaluate the drying time of knit, woven and nonwoven fabrics at an elevated temperature using a gravimetric moisture analyzer. It is used to simulate drying at body temperature or to perform testing at temperatures that simulate conditions of use.

Standards

AATCC199

Key Specification

Temperature Accuracy	37℃±0.5℃.
Digital balance accuracy	0.001g
Wire Screen	0.25 x 0.25in. mesh
Specimen Support	Platform
Connection	USB Cable



DW290A Moisture Evaporation Rate Tester (Quick-Drying Tester)

Application

It is used to evaluate the absorption and quick-drying performance of textile or fabric by single combination testing method. The quick-drying property can be determined by testing evaporation rate under the certain air condition.

Standards

GB/T 21655.1-2023 JIS L1096

Key Specification

Weighing range	0~320g
Accuracy	0.001
Specimen size	100mm×100mm
Time interval	Preset, 0~999.9min
Speed	Preset, 0~200rpm
Position	10 pcs
Termination way	Certain time or evaporation mass
Touch screen size	7 inches



YG 812D



YG 812S

YG812D/S Hydrostatic Head Tester

Application

To determine the resistance of fabrics (such as canvas, tarpaulin, manta, tent cloth, rain-proof garments) to water penetration by increasing hydrostatic pressure at a constant rate from below the test specimen.

Standards

ISO 811 AATCC 127

Key Specification

Model No.	YG812D	YG812S
Unit	kPa, mmHg, mbar	
Measurement range	0 ~ 200kPa	
Effective area of test head	100cm^2	
Loading rate	1kPa/min, 6kPa/min, 10kPa/min, 100kPa/min	
Illumination	/	LED light
Printer	/	Micro printer



YG812P Hydrostatic Head Tester

Application

It is applied to determine the resistance of fabrics (such as canvas, tarpaulin, manta, tent cloth, rain-proof garments) to water penetration.

Standards

ISO 811	ISO 1402	AATCC 127
GB/T 4744	GB/T 9082	FZT 01004
DIN 53886	EN 20811	EN 13726-3,
WSP 80.6	BS 2823	EN 1734
JIS L1092-7.1.1		

Key Specification

Measurement range	500Pa - 200kPa
Water pressure increase rate	1-30kPa
Accuracy	0.2% F.S
Clamping method	Pneumatic
Specimen test area	100cm2
Testing mode	1. P. Rise 2. Const P & Timing 3. Const P & Time 4. Water penetration 5. Fatigue
Unit	kPa, PSI, mmH2O, cmH2O, mbar, mmHg



YG871 Capillary Effect Tester

Application

To determine the capillary effect of textile materials.

Standards

FZ/T 01071

Key Specification

Max. sample number	Max 10
Tension clamp weight	3±0.5g
Preset temperature range	RT~60±2℃ (presettable)
Operation time range	≤ 99.99min (presettable)
Scale	0~200±1mm

Y813 Spray Rating Tester

Application

To determine the resistance of any fabrics, which may or may not have been given a water-repellent finish, to surface wetting by water.



Standards

ISO 4920 AATCC 22

Key Specification

Diameter of funnel	Φ150mm
Distance between nozzle and center of specimen	150mm
Diameter of specimen holder	Φ155mm
Specimen gradient	45°

YG813T Impact Penetration Tester

Application

To measure the resistance of fabrics to the penetration of water by impact, and thus can be used to predict the probable resistance of fabrics to rain penetration.



Standards

ISO 18695 AATCC 42

Key Specification

Distance between nozzle and center of specimen	(610±10)mm
Diameter of funnel	Φ152mm
Mass of spring clamp	(0.45±0.05)kg



YG814D Wettability Tester

Application

To measure the time of liquid (simulated urine) strike-through for non-woven cover stocks.

Standards

ISO 9073-8

Key Specification

Controlled liquid flow rate	25ml in (3.5±0.25)s
Distance between funnel tip and specimen	30mm, adjustable
Plate size	100×100mm(L×W)



FY016 Run-off Apparatus

Application

To measure run-off of nonwovens. It collects the excess liquid by using a standard receiver pad placed below the lower end of the nonwoven test piece.

Standards

ISO 9073-11

Key Specification

Inclined angle of table	25° or 10°
Inner diameter of glass tube	5mm

YG800 Rain Tester



Application

To measure the resistance of fabrics to the penetration of water by impact

Standards

ISO 22958 AATCC 35

Key Specification

Water column height	0.6m, 0.9m,1.2m, 1.5m, 1.8m, 2.1m, 2.4m
Nozzle hole number	13
Nozzle hole diameter	Φ0.99±0.013mm

DW814FT Bundesmann Water Repellency Tester



Application

To simulate the water repellent performance of fabrics subjected to showers when in motion.

Standards

ISO 9865 BS EN 29865 DIN 53888

Key Specification

Rotation speed	6r/min
Rainfall area	1300 cm²
The outer diameter of the test cup	100 mm
Rainfall (per 100cm2)	100~300ml/min (adjustable)
Test sample cup mounting angle	15º
Sample size	φ140mm
Nozzle number	300pcs
Wipers speed	20rpm



YG606D Thermal Guarded Hotplate

Application

To determine the thermal resistance and thermal transmittance of various textiles.

Key Specification

Test plate dimensions	250×250mm
Temperature range of heating plate	20~49.9°C
Temperature accuracy	±0.5°C
Preheat time range	0~9,999s, settable



DW259A Sweating Guarded Hotplate

Application

To accurately measure the thermal resistance (Rct) and water-vapor resistance (Ret) of fabrics, films, coatings, foams and leather including multilayer assemblies used in clothing, quilts, sleeping bags, upholstery and similar textile or textile-like products under steady-state conditions.

Standards

ISO 11092 | ASTM F1868 | ASTM D1518

Key Specification

Test item	Thermal resistance, R_{ct}	Water-vapour resistance, R_{et}
Measuring range	0.001~2 m^2·K/W	2~1000 m^2·Pa/W
Test plate temperature	20~50°C	
Test plate accuracy	±0.03°C	
Air velocity	0~1.2m/s	
Chamber temperature range	20~80°C	
Chamber temperature accuracy	±0.5°C	
Chamber humidity range	30%RH~80%RH	
Chamber humidity accuracy	±2%RH	

DW265 Cool Feeling Tester



Application

It measures the instant cool feeling of textiles and sheet materials when they contact with the skin, such as the cool feeling of pajamas, bedding, and underwear.

Standards

GB/T 35263 | FTTS-FA-019 | JIS L1927

Key Specification

Temperature resolution	0.01°C
Heating temperature range	20°C~40°C
Test resolution	0.001J/(cm²·s)
Test time	1~99s, settable
Heat detection plate area	9cm², pressure 0.9±0.09N/cm²
Print output	Micro printer

DW265-TC Thermal Conductivity

Tester

Application

It is a new portable thermal conductivity tester based on THW technique to satisfy the users' portable requirement. Special sensor design makes it suitable for liquids, solids, powder, viscous body, paste and etc.



Standards

ASTM C1113 | ASTM D5930 | ASTM D2717

Key Specification

Method	Transient Hot Wire (THW)
Range	0.001~50.0 W/(m·K)
Resolution	0.0005 W/(m·K)
Accuracy	±3 %
Measurement Time	1~20 seconds
Types of Sample	Bulk, sheet, film, powder, paste, viscous body, liquids and etc.
Sample Quantity	Bulk, sheet & film: thickness ≥ 0.3mm,length ≥ 25mm; powder, paste, viscous body & liquids: ≥ 50m



YG541A Crease Recovery Tester

Standards

ISO 2313 | AATCC 66 | BS EN 22313



YG541M Crease Recovery Tester

Standards

ISO 2313 | AATCC 66 | BS EN 22313 | M&S P22



YG541B Fully Automatic Crease Recovery Tester

Application

To determine the recovery properties of fabrics by creasing in a load device for a predetermined time using a weight suitable for the test method specified.

Standards

ASTM D1388 | BS 3356 | GB/T3819

Key Specification

Model No.	YG541A	YG541M	YG541B
Working position no.	1	1	10
Pressure load	10N±0.05N	1.019kg(10N)	10N
Measuring angle range	0~360°	10~180°	5°~15°

FY207 Automatic Fabric Stiffness Tester



Application

To determine the bending length and flexural rigidity of fabrics by simple procedures and calculation.

Standards

ISO 9073-7 ASTM D1388 (Option A)

Key Specification

Measuring angle	41. 5°, 43°, 45°
Length resolution	0.1mm
Dimension of working table	40×250mm
Pressing board size	25×215mm
Pressing board speed	3~5mm/s

FY207B Automatic Fabric Stiffness Tester



Application

To determine the stiffness properties of fabrics.

Standards

ASTM D1388（B Test） GB/T18318.2
JIS L1096(8.21.4 D Test)

Key Specification

Specimen length	200mm (Optional 150mm or 250mm)
Specimen width	25~75mm
Measurement range	34~130mm
Brass bar for clamping sample	25mm (Height), 3mm (Thickness)



FY207C Digital Pneumatic Stiffness Tester

Application

To determine the stiffness properties of fabrics using the ASTM circular bend test method.

Standards

ASTM D4032

Key Specification

Actuator mode	Pneumatic
Platform size	102*102mm
Orifice diameter	102*204mm
Plunger diameter	25.4mm
Downward stroke	57m
Gauge capacity	500N



YG811D Fabric Drape Tester

Application

To measure drape property from the deformation by gravity of an initially horizontal annular ring of fabrics.

Standards

ISO 9073-9 GB/T 23329 FZ/T 01045

Key Specification

Drape coefficient range	0~300%±2
Testing plate rotating speed	20~200r/min, adjustable
Testing plate lifting speed	800mm/min
Testing plate diameter	Φ18cm and Φ12cm
Display	Touch screen

DW262 Fabric Touch Tester



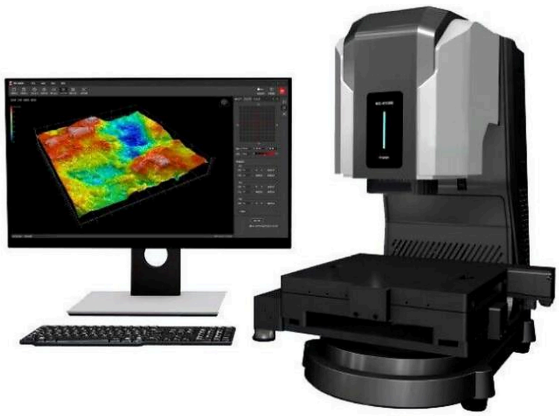
Application

To measures skin touch properties of textile materials by performing compression, bending, friction, stretch tests, get the indices of softness, stiffness, smoothness, looseness and tightness, objectively evaluates the touch feel of fabrics.

Key Specification

Measurement time	About 4 minutes for single specimen
Style indexes	1. Softness (SF) 2. Stiffness (ST) 3. Smoothness (SM) 4. Looseness and tightness (LT)

KX1000 3D Fabric Surface Roughness System



Application

It uses 3D camera to take photo of fabric surface, and measure the roughness of fabric. Operators can also measure the height of each fiber or yarn in the fabric and compare its value with others.

Key Specification

Max. fabric size	100*100mm
Min scanning size	20μm
Scanning frequency	2000Hz
Scanning speed	20000μm/sec



DW264SRU Fabric Surface Friction/Roughness Tester

Application

To determine fabric surface roughness or frictional behavior by adopting the method of simulating human fingertip.

Key Specification

Specimen dimension	200*200mm
Specimen tension	200cN, other tension can be customized
Travel distance	At least 30mm
Friction speed	60±2mm/min, settable
Surface friction test	Force measuring range: 0~5N
Surface roughness test	Displacement measuring range: 0.4 mm



TNG13 Fabric Extensometer

Application

To determine the stretch and recovery of textile fabrics, both knitted and woven.

Standards

BS 4294

Key Specification

Clamping width of Jaw	10mm
Woven fabric reading scale	0 - 50%
Knitted fabric reading scale	0 - 300%
Fixed load	3kg × 2pcs

202SY-II Formaldehyde Content

Tester



Application

To provide fast method to determine formaldehyde content in textiles by spectrophotometer absorbing formaldehyde extraction solution which is colored by acetyl acetone.

Standards

ISO 14184 AATCC 112

Key Specification

Formaldehyde measuring range	0~500mg/kg
Testing wavelength	412nm
Wavelength repeatability	1nm
Spectral bandwidth	4nm
Transmission ratio accuracy	±0.5%T



YG902 UPF and UV Penetration/Protection Measurement System

Application

To determine the color fastness of all textiles (not including loose fibers) when exposed to atmospheric oxides of nitrogen derived from the combustion of chemically-pure butane gas or town manufactured gas.

Key Specification

Wavelength	290~400nm
UVA transmittance ratio	T(UVA) (315~400nm)
UVB transmittance ratio	T(UVB) (290~315nm)
UV protection factor	UPF



YG342L Fabric Frictional Electric Charge Tester (Faraday Bucket)

Application

For measuring the charge quantity of fabrics and clothing charged by friction under laboratory conditions.

Standards

ISO 18080-3 GB/T 12703.2/3

Key Specification

Charge measuring apparatus	
Measuring range and Accuracy	±0.001μC~2μC, ≤±0.01μC
Resolution	0.001μC
Manual friction apparatus	
Rubbing bar	Polyvinyl chloride pipe, length: 400mm
Rubbing fabric	Dimensions: 450*350mm
Insulation bar	Acrylic bar, length: 500mm
Rotary drum friction machine	
Rotate speed of drum	(50±10)r/min
Inside temperature of drum	(60±10)℃

YG342LA Fabric Inductance-Type

Electrostatic Tester

Application

Sample fabric is charged under a needle-shaped electrode with a high voltage, when it's stable, then cut off the power of the high voltage and let the charge decay naturally. Determine the time that the voltage decays to the half of the original voltage. This machine suits for test all kinds of fabric but not the flooring fabric.



Standards

GB/T 12703 FZ/T 01024

Key Specification

Sample size	45×45mm
Measure range	0~10kV
Disc speed	1500r/min
Half-life time range	0~999.9s

YG342LC Fabric Friction-Type

Electrostatic Tester

Application

Rotary sample fabrics abrade with a standard fabric which under a specified tension. Determine the maximum voltage generated in this process. This process simulates the fiction of the underwear and outwear.



Standards

GB/T 12703 FZ/T 01061 JIS L1094

Key Specification

Sample size	40×80mm, 4 pcs
Measure range	0~10kV
Rotate speed of sample holder	400r/min
Tension load	500cN
Timer range	0~9999s