GBP® 包装 MONTH TESTING INSTRUMENTS



GBPI®

PACKAGING TESTING EQUIPMENT

Leader of packaging testing solutions



Guangzhou Biaoji Packaging Equipment Co., Ltd





ABOUTUS

GBPI is a supplier of flexible packaging testing equipment, with a focus on water - permeability testing series, mechanical performance testing series, spout sealing machine series, and testing solutions. It has more than 20 years of experience in the field of testing equipment.

The company has a dedicated R & D and after - sales team, which can provide customer testing and on - site machine training services. Moreover, we can also help customers with one - stop customized laboratory testing solutions.

GBPI has passed ISO9001 certification. We have become a large - scale testing agency supplier and cooperate with many international standards organizations. According to customer requirements, we can provide CE, ISO, CNAS calibration certificates, etc.















Packaging Material Control Indexand Significance

Barrier Performance

Barrier performance refers to the barrier effect of packaging materials against permeation such as water, steam, and liquids. Barrier testing includes support bodies (oxygen, nitrogen, carbon dioxide, air, organic water, etc.) and steaming performance. The important performance indicators of packaging materials also include: antibacterial effect, temperature resistance, light resistance, acid and alkali resistance, and antioxidation (this solves the problem of product deterioration, provides waterproof, oxygen, and ultraviolet light, etc.

Physical and Mechanical Performance Testing

The physical and mechanical properties are the basic performance indicators that measure the protection of the packaging during production, transportation, shelf life, and use. General properties include tensile strength, heat seal strength, peeling, puncture resistance, and pressure resistance, impact resistance, tear resistance, suspension pull - off performance and other i ndicators to ensure

Total Migration and Non-Volatile Matter Detection

Packaging materials like secondary utensils, metals, chemicals, etc., if total migration or non - volatile matter fails to meet standards, products get contaminated by toxic components when exposed to wine, vinegar, oil and similar substances. Once ingested, they harm the human body and affect the stable performance, color, odor, taste and other qualities of substances, drugs and chemicals.

Packaging Sealing Performance Testing

The sealing performance of the package is the reliability of the sealing of the packaging bag, bottle, box, tube, filling, etc. The test can ensure the integrity of the seal of the entire packaged product, prevent the package from leaking due to poor sealing performance, and avoid the package being contaminated or deteriorating.

Surface Performance Testing

The measurement of friction resistance and friction performance can ensure smoothness during long - term use, and guarantee safety and comfort in application scenarios such as production, handling, and usage, for both the interior and exterior of packages

Cap Torque Testing

In - bottle packaging is one of the commonly used packaging types. The cap is sealed, and the opening torque is a key process parameter controlled by the production unit online. Whether the torque is appropriate ensures the quality during product transportation and consumer satisfaction. Additionally, it plays a crucial role in product protection

Retort Resistance Testing

Cooking packaging is widely used for single - piece, bulk, and ready - to - cook packaging. After cooking, the packaging materials must still meet requirements. The cooking performance (including seal integrity) must be tested, and changes in packaging performance and expansion before and after cooking are evaluated via hightemperature counter - pressure cooking tests

Solvent Residue Testing

A large amount of organic solvents, such as toluene, xylene, ethyl acetate, and ethanol, are used in composite coating, packaging process, and production. Many of these chemical solvents remain in the packaging materials



Water Vapor Permeability Analyzer

Widely used in quality inspection organizations, drug control institutions, research institutes, packaging, thin film, food companies, pharmaceutical enterprises, personal care industry, electronics industry and so on

Infrared Sensor Method Water Vapor Permeability Analyzer

Technical Specific	cation/Model W401 2.0	W401 L	W405L	W4132.0
Test range	0.002~100g/(m ² ·24h)	0.001~200g/(m ² ·24h)	0.01~200g/(m ² ·24h)	Films & sheets: 0.002 - 100 g/(m² • 24h) Packages: 0.00001 - 0.5 g/(pkg • day)
Test resolution		0.0001g/(m ²	· 24h)film and sheet	Films and sheets: 0.0001 g/(m² · 24h) Packages: 0.0001 - 0.5 g/(pkg·day)
Temperature range		15~45°C (15	~60°COptional)	
Transmission dimensions		50.2	24cm²	
Humidity range		(5~90)	%RH,100%RH	
Temperature accuracy	±0.1°C	±0.1°C	±0.2°C	±0.5°C
Humidity accuracy	±1%RH	±2%RH	±2%RH	±2%RH
Sample number	1piece	1 pieces	3pieces	3 pieces
Carrier gas pressure	≥0.1MPa	≥0.1MPa	≥0.1MPa	≥0.1MPa
Carrier gas flow	5~100mL/min	5~100mL/min	5~100mL/min	5~100mL/min
Gasconnection	1/8inch metal pipe	1/8inch metal pipe	1/8inch metal pipe	1/8inch metal pipe
		1	1	

Electrolytic Sensor Method Water Vapor Permeability Analyzer

Technical Specification/Model	W203 2.0	W201 2.0
Testrange	0.001 - 40g/(m ² ·24h) (films and sheets)	0.001~40g/(m ² ·24h) (films and sheets)
Test precision	0.0001g/(m ² ·24h) (films and sheets)	0.0001g/(m²·24h) (films and sheets)
Temperature range	15 - 45°C	15~45°C
Temperature accuracy	±0.1°C	±0.1°C
Humidity range	(5 - 90)%RH	(5~90)%RH
Humidity accuracy	±1%RH	±1%RH
Transmission dimensions	50.24cm	² 50.24 cm ²
Sample number	3pieces	1 piece
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Gravimetric Method Water Vapor Permeability Analyzer

TechnicalSpecification	on/Model W301 2.0	W303 2.0	
Test range		0.1~10000 g/(m²·24h)	
Test precision		0.0001g/(m ² 24h)	
Temperature range		15∼55°C	
Temperature accuracy		±0.1°C	
Humidity control range		≤10%RH	
Humidity accuracy		±2%RH	
Transmission dimensions	50.24cm ²		
Sample number	1piece	3pieces	
Sample thickness	≤3mm	≤3mm	
Sample dimensions	Ф90mm	Ф90mm	
Weight	22 kg	66 kg	



Gravimetric Method Water Vapor Permeability Analyzer

Technical Specificat	ion/Model AUTOW806	AUTOW809	AUTOW812
Testrange	0.05~10,000 g/(m ² ·24h)	0.05~10,000 g/(m ² ·24h)	0.05~10,000 g/(m ² ·24h)
Resolution	10~50°C	10~50°C ±0.1°C	10~50°C ±0.1°C
Test temperature		$0.0001 \text{g/(m}^2 \cdot 24 \text{h)}$	
Temperature accuracy		±0.1°C	
Test Humidity		(5~90)%RH, 100%RH	
Air Speed		0.5~2.5m/s (0.03~0.5m/soptional)	
Transmission dimensions	33 cm ²		
Teststation	6	9	12
Carrier gas pressure	≥0.6MPa	≥0.6MPa	≥0.6MPa
Standard test area	33cm ²	3 ² 3cm	33cm ²
Connection size	Ф6mmPolyurethanetube	Ф6mmPolyurethanetube	Ф6mmPolyurethanetube



Gas Permeability Analyzer

Widely used in quality inspection organizations, drug control institutions, research institutes, packaging, thin film, food companies, pharmaceutical enterprises, personal care industry, electronics industry and so on

Gas Permeation Analyzer

Technical Specifica	ation/Model N500L	N500 2.0	N530L	N530 2.0
Test range	0.05 - 50000 cm ³ /(m ² · 24 h · 0.1 MPa)	0.02 - 50000 cm 3 /(m 2 · 24 h · 0.1 MPa) By expanding the upper limit of volume, it can test up to 600000 cm 3 /(m 2 · 24 h · 0.1 MPa)	0.05 - 50000 cm ³ /(m ² ·24 h·0.1 MPa) By expanding the upper limit of volume, it can test up to 600000 cm ³ /(m ² ·24 h·0.1 MPa)	0.02 - 50000 cm ³ /(m ² ·24 h·0.1 MPa) By expanding the upper limit of volume, it can test up to 600000 cm ³ /(m ² ·24 h·0.1 MPa)
Test pressure	0.1 MPa	0.1 MPa	0.1 MPa	0.1 MPa
Temperature control precision	±0.2°C	±0.1°C	±0.2°C	±0.1°C
Sample number	1piece	1pieces	3pieces	3piece
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| GasPermeationAnalyzer

Technical Specification/Model	N500A 2.0	N530A 2.0
Test range	0.01~25000 cm3/(m2·24h·0.1MPa)	$0.01^{-}25000$ cm $^3/(m^2 \cdot 24 h \cdot 0.1$ Mpa) Up to 600900 cm $^3/(m^2 \cdot 24 h \cdot 0.1$ MPa) with expanded volume limit
Vacuum Level	<10Pa	<10Pa
Temperature control range	15~60°C	15~60°C
Sample number	1pieces	3pieces
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>>> Oxygen Permeability Analyzer

Widely used in quality inspection organizations, drug control institutions, research institutes, packaging, thin film, food companies, pharmaceutical enterprises, personal care industry, electronics industry and so on.

CoulometricSensor Method Oxygen Permeability Analyzer

Technical Specifica	ation/Model Y310 L	Y110 L	Y110 2.0	Y310 2.0
Test range	0.05 - 1000 cm ³ / (m ² · 24h · 0.1MPa)	0.05 - 1000 cm ³ / (m ² · 24h · 0.1MPa)	0.01~1000 cm ³ /(m ² ·24h·0.1MPa)	0.05 - 1000 cm ³ / (m ² · 24h · 0.1MPa)
Test resolution	0.0001 cm ³ / (m ² ·24h·0.1MPa)	0.0001 cm ³ / (m ² · 24h · 0.1MPa)	0.0001 cm ³ /(m ² ·24h·0.1MPa)	0.0001 cm ³ / (m ² ·24h·0.1MPa)
Temperature range	15 - 45°C	15~45°C	15~45°C	15~45°C
Temperature accuracy	±0.2°C	±0.2°C	±0.1°C	±0.2°C
Pneumatic pressure	≥0.1 MPa	≥0.1 MPa	≥0.3MPa	≥0.3MPa
Carriergas pressure	≥0.1 MPa	≥0.1 MPa	≥0.1 MPa	≥0.1 MPa
Transmission dimensions	50.24 cm ² Customized adapters, minimum to 0.785 cm ²)	50.24 cm ² Customized adapters, minimum to 0.785 cm ²)	50.24 cm ² Customized adapters, minimum to 0.785 cm ²)	50.24 cm ² Customized adapters, minimum to 0.785 cm ²)
Sample number	3 pieces	1piece	1piece	3piece
Carrier gasflow	5 - 100 mL/min			
Gas connection	-	99.999% Nitrogen (User - provided)	99.999% Nitrogen (User - provided)	-

Heat Seal Tester

Technical Specification/Mod	lel GBB - A3 Lid Film Heat Sealer	GBB - C Vertical Heat Sealer
Temperature range	Room temperature ~ 250°C	Room temperature ~ 250°C
Heat sealing time	±1°C	±1°C
Heat sealing pressure	0.1s ~ 99.99h	0.1s ~ 99.99h
Operation mode	(0 - 1)MPa	(0 - 1)MPa
Air source	Automatic and manual modes	Automatic and manual modes, air cylinder external
Heat sealing surface	-	-
		0

Heat Seal Tester

Technical Specificati	ion/Model GBB-F1	GBB-A1	GBB-F	GBB-A
Heatsealing temperature	Roomtempe	erature~250°C	Roomtemperati	ure~250°C
lemperature Controlaccuracy	±	0.1°C	±1°C	
Seal time range	0.1s~99h	59min 59.9s	0.01s~	-99.99h
Pressure range	0.1~0.8MPa		0~1MPa	
Heating mode	Double heating		Double heating	
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Universal Material Testing Machine / Electronic Tensile Tester

Technical Specification /N		GBH-2	GBL-L2	GBL-H2	GBS
Force Range	0~3000 N (multi-sensor optional within 20000 N)	0~500 N (0~2000 N optional)	0~300 N, 1250% elongation	0~300 N, 1350% elongation	0~3000 N (multi-sensor optional within 20000 N)
Force Accuracy	≤±0.5% FS	≤±0.5% FS	≤±1% FS (Class 1)	≤±1% FS (Class 1)	≤±0.5% FS
Test Speed	0~500 mm/min	0~500 mm/min	0~500 mm/min	0~500 mm/min	0~500 mm/min
Speed Accuracy	≤±1% of indicated value			≤±1% of indicated value	≤±1% of indicated value
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Sample Cutter

Technical Specification/ Model	LC-1S	LC-3S	LC-2
Material Thickness	≤1mm	≤1mm	≤1mm
Cutting Specification	15mm×210mm (width optional)	15mm×220mm (width optional)	15mm×230mm (width optional)
Product Size	400mm*250mm*300mm	-	410mm*250mm*180mm
Weight	12kg	9kg	12kg
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Coefficient Friction Tester

Technical Specificat	ion /Model GM-1	GM-4	GM-6	GM-F1Inclined friction tester
Test range	0.001~0.999	0.001~0.999(stepless speed regulation)	0.001~0.999	Anglerange:0°~85°
Slider speed	100,150,500mm/min	0~500mm/min	1~500mm/min	Resolution:0.01°
Force range	0~9.8N	0~10N	0~10N	Sensoraccuracy:0.1%FS
Distance travelled	100mm±5mm	0~150mm	0~150mm	Angular velocity: 0.1°/s ~ 10°/s
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Pendulum Impact Tester

Technical Specification / Model	GBG-L2	GBD-B
Maximum impact energy	1J、2J、3J、5 J (8Joptional)	3J
Pendulum angle	90°	90°
Resolution ratio	0.001J	0.01J
Pendulum swing radius	285mm	285mm

Impact Tester

Technical Specific	ation / Model GBD-L2 Dart Impact Tester	GQ-D1 Falling Ball Impact Tester
	Measurement Metho:dA Method, B Method, Single Sheet Method	Impact Height: 0~900 mm
	Test Range: A Method: 50~2000 g; B Method: 300~2000 g	Steel Ball Diameter: 23 mm (50 g), 25 mm (60 g), 28.6 mm (100 g), 38.1 mm (225 g)
	Test Range of Single Sheet:20 g~2000 g	Sample Clamping Range: 120 mm * 85 mm

Compression Tester

Technical Specific	cation / Model GBN200A	GBN200G	GBN200Z	GBN2000Z
Test range	0~3000N	Pressure range: 50 - 700 kPa	0 - 2000 N	20 KN
Test Stroke	0 - 185mm	0~100mm	0 - 100 mm	-
Test speed range	0 - 300mm/min (continuously variable speed)	-	-	0 - 300mm/min (continuously variable speed)
Forcemeasurement accuracy		±0.8%	-	Within $\pm 1\%$ of the displayed value

Vacuum Coating Thickness Tester

Technical Specification / Mode	GH-3	GH-D
Test range	0~12.7mm	0~6mm
Resolution	0.001 mm	0.1μm
Measuring force	0.5~1N	0.4N
Measuring head	Ф5mm(customizable)	Ф6тт

Gas Chromatography / Drying Oven

Technical Specification/	Model GC9802-K	GC-9803	DHG - 9030A
Temperature range	Room temp. +3°C - 399°C	Column oven: 5°C - 400°C	Room temp. ±10°C - +200°C
Temperature accuracy	0.1%	Better than ±0.1	
Carrier gas source	N ₂ , Purity 99.99%, 0.4MPa, dry	-	
Hydrogen gas source	Purity 99.99%, 0.4MPa, dry	-	
Air source	0.4MPa, dry clean, oil - free	-	
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LeakageTester

Technical Specificat	tion/Model AUTO GBM-L1	AUTO GBM - L2	GBM - D1
Vacuum Range	Absolute Pressure (0~300) kPa; Differential Pressure (-2~2) kPa	Absolute Pressure (0~300) kPa; Differential Pressure (-2~2) kPa	0.1 Kpa∼1 Mpa
Vacuum Accuracy	Detection Sensitivity 1~2 μm	Detection Sensitivity 1~3 μm	Resolution and Test Accuracy are both 0.1 Kpa
Vacuum Holding Time	Balance/Test, Vacuum Purge: 1∼3600 s each	Balance/Test. Vacuum Purge: 1~3600 s each	1~1000 s
Power Supply	AC 220V, 50HZ	AC 220V, 50HZ	AC 220V, 50HZ

LeakageTester

Technical Specificatio	n/Model GB-M	GB-M3	GB - M2S	GB - M2
Vacuum Range	-(0∼90) KPa	-90kPa~400kPa	-(0∼95) KPa	-(0∼90) KPa
Vacuum Accuracy	1% of Indication Value	Maximuminputpressure:400kpa	1% of Indication Value	1% of Indication Value
Vacuum Holding Time	0.01s∼99.99h	1s~999s	0.01s~99.99h	1 s∼99 h59 m59 s
Power Supply	220V, 50Hz	Testbarrelcapacity:10L	220V, 50Hz	220 V, 50 Hz

Standard Light Source / Intelligent GlossTester / Light Transmittanceand Haze Tester

TechnicalSpecificati	on/Model KGZ—1C	P60	SGW-810
Testrange	0~199.90glossunits	Lightsource:D65, TL84, FUV	Lighttransmittance0~100.0%,hazedegree0~30.00%
Testaccuracy	±1.0glossunits	-	LighttransmittanceAccuracy:≤1%
InstrumentStability	Nomorethan0.5glossunit/30minutes	-	Lighttransmittance:0.5%
Repeatability	Nomorethan0.5glossunit	-	Lighttransmittance0.01%,hazedegree0.01%
Detectorsize	180mm×100mm×50mm	Outersize:700mm×420mm×550mm	Preheatingtime:30min
Power	25w	-	-
Powersupply	220VAC,50HZ	Weight:21kg	-

Pressure Sterilized Boiler

Technical Specification	/Model ZM-100	
Volume	50L	100
Sterilization temperature	100~135°C	
Operating Pressure	0~0.22Mpa	
Safety Automatic Control Pressure	0~0.23Mpa	
WaterSupplyPressure	≥0.32 Mpa	
Back Pressure	0.14~0.165 Mpa	

Hot Tack Tester

Technical Specificatio	n/Model GBR		Ī
Temperature range	Roomtemperature~250	°C	
Temperature accuracy	±1°C		
HeatSeal Dwell Time	0s-99s		ı
Heatsealingpressure	0.1-0.8MPa		
Specimen Length	200mm		
Measurement Range	0~300N		

Bursting Strength Tester

Technical Specification/Model GNP-1		
Measurement range	40~1600kParange can be customized	
Measurement precision	Indication error: ±0.5%FS,Indication fluctuation: <0.5%	
Pressurization(oildelivery) speed	(95±5)ml/min	
Film resistance	Bulge degree:9mm Film resistance:(30±5)kPa	
Specimen holding force	(0-2000)kPa(adiustable)	
System seal degree	1min pressure decrease<10%pmax	
Instrument size	500mm × 750mm × 505mm	
weight	47kg	
Pressure gauge pressure setting	(0.2~0.22)MPa	
Equipped with air compressor	Discharge capacity:(0.02~0.4)m ³ min Rated pressure:(0.6~0.8)Mpa	



TearTester

Technical Specification/Model	GBD-S	
Test range 0-68648mN		
Tearing arm	104 ± 1 mm	
Initial Tear Angle	27.5° ±0.5°	
Indicated Value Error:	Within 20%-90% of the force scale's max range, indicated value error $\leq \pm 0.5\%$ of it.	
Gas supply pressure	0.2~0.4MPa	
Relative fluctuation	within1%	
Power supply	AC220V, 50Hz	



Heating Shrink Tester

Technical Specification/Model	GBK-D1		
Sensor Specification	5 N (Standard); 10 N, 30 N (Customizable)		
Shrinkage Force Accuracy	\pm 0.5% of Indication (10%-100% of Sensor); \pm 0.05% FS (0%-10% of Sensor)		
Display Resolution	0.001 N		
Displacement Measurement Range	0.1~70 mm		
Displacement Sensor Accuracy	±0.07 mm		
Shrinkage Rate Measurement Range	0.1%~95%		
Operating Temperature Range	Room Temperature~250°C		



Spout Sealing Machine

Technical Specification	n/Model GF-1700XB	GF-2700XB
Whole machine size	5800mm×2100mm×1800mm	5800 mm x 4100 mm x 1800 mm
Package Type	Stand-upspoutpouches,three-si	desealspoutbags,organspoutbags,shapedspoutbags .
Material type	Bag:innerlayerPE,innerlayerPPm	na terial,tube:PE,PPmaterial
Working speed	80-90 pcs/min, single-channel 40-45 pcs/min (varies by material and bag size)	80-90 pieces per minute, 40-45 pieces per minute for single channel



Spout Sealing Machine

Technical Specification/Model GF-2200Z		GF-3000Z	
Whole machine size	2900mm x 2400mm x 2000mm	3900mm x 2900mm x 2000 mm	
Sealing Pouch Type	Stand-up spout pouches, three-side sealed pouches	gusseted pouches, special-shaped pouches (customized) .	
Product Specs	Bag Length: 100-180mm (L), Width: 70-120mm (W); Seal Length: 60-120mm	Bag Length: 80-180mm (L), Width: 70-120mm (W); Seal Length: 60-120mm	
Temperature Range	Room Temp ~ 300°C	Room Temp ~ 300°C	

Modified Atmosphere Refrigerator

TechnicalSpecification/Model	AUTO GQ900	AUTO GQ300	AUTO GQ100
Gas measurement range	O ₂ :0%~	\sim 30%;CO ₂ :0% \sim 20%;C ₂ H ₄ :0 \sim 200 ppm;the remaining §	gas is N ₂
Gas testing accuracy		O2: 0.01%; CO2: 0.01%; C2H4: 1 ppm	
Temperature control range	-5°C∼45°C	-5°C∼45°C	-5°C∼45°C
Test chamber	9pieces	3pieces	1piece
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/ Intelligent Compost Degradation Tester

Technical Specification/ Mode				
Temperature range	Roomtemperature-80°C,step0.1°C			
Temperature control accuracy	≤±0.2°C			
Testing range	0~4200g			
Testing accuracy	±0.01g			
Number of test chambers	18			
Dimension	2700mm×560mm×1800mm			

Melt Index Tester

Technical Specification/Model	GBB-R	
Test Method	Mass Flow Rate (MFR), Volume Flow Rate (MVR)	
Measurement Range (Mass Method)	0~200 g/10 min	
Measurement Range (Volume Method)	0~41.81 cm ³ /10 min	
Mass Measurement Accuracy	0.1 g/10 min	
Automatic Test Timing	0.1~999.9 s	
Temperature Control Range	Room Temp ~ 300°C	
Temperature Control Precision	\pm 1°C (10mm \pm 1mm above the top of the standard die)	
Temperature Fluctuation	$\pm 1^{\circ}$ C (10mm ± 1 mm above the top of the standard die)	



Full-Automatic Overall Migration Tester

Technical Specification/Model	ZF900	AUTO ZF3600	AUTO ZF1800G
Measurement Range		(0∼80) g	
Resolution		0.01 mg	
Number of specimens	9	36	18
Vaporating Dish Volume	100 mL	100ml	200 mL

Migration Cell Series

Technical Specification/Model	MC-A	MC-B	MC-C1	MC-D
Contact Form/Type		Single-Sided		
Contact Area	196cm²	196cm ²	100cm2 (Φ112.8 mm)	Ф112.4 mm
Contact Diameter	Ф158 mm	Ф158 mm	-	9
Volume/Capacity	200mL	50mL	200 mL	100mL

Torque Testing Equipment

Technical Specification/Mo	odel HP-D1	HP-200	HP-100
Sensor Specifications	10N⋅m,20N⋅m, 40N⋅m(optional)	0~20N·m	0.01-10N.m
Torque Resolution	0.0001N·m	0.001N·m	0.001N.m
Clamping Force	Freely Adjustable per Material Properties	-	-
Airsource Pressure	0.7MPa(101.5psi)	-	-

Ink Layer Bonding Fastness

TechnicalSpecification/Mo	odel GX-C2	GX-Y2	GX-B3	GX - C3
Friction Pressure	$20 \pm 0.2 N$	Rolling Speed:0 - 600 mm/min	Pressure Between Disks:100 N	8.9 N (2 lb); 17.8 N (4 lb)
Friction Speed	43 cpm (times/minute)	Pressure Roller Load:20 N ± 0.5 N	Peeling Speed:100 N:0 - 1 m/s	10 - 200 cpm (times/minute)
Number of Frictions	1 - 999999 times	Pressure Roller Diameter:84 mm	Diameter of Disk A:170 mm	1 - 999999 times
Sample Size	$320 (L) \times 50 (W) mm$	Pressure Roller Width:45 mm	Diameter of Disk A:65 mm	Friction Method: Arc Reciprocation



Our Company











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Drink:



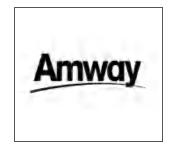


Food:





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Research Institute



