

High speed peel tester IPTS-20N/50N

It graphs the measurement accurately due to its high sampling rate, at Max. 2000Hz.

It handles a wide range of test speed up to 1500 mm/min.

One-click operation: The start button provides smooth flow from testing to data saving

You can test samples at a thickness of up to 0.5mm.



Test image

IPTS-50N

<p>ISO & JIS</p>	<ul style="list-style-type: none"> • A peel test part of ISO 29862:2007 [Self adhesive tapes–Determination of peel adhesion properties] (A peel test part of JIS Z0237:2009) • ISO 8510-2:1990 [Adhesives – Peel test for a flexible-bonded-to-rigid test specimen assembly –Part 2 : 180°peel] (JIS K6854-2:1999) • Japanese Pharmacopoeia (Partly accordance)
<p>Applications</p>	<p>Stickers, adhesive tape, screen protector film for smartphone, low-friction silicon rubber sheet, laminated package, adhesive tape for first-aid, double postcard (two attached postcards), magnetic tape, electrode's line of solar cell, copper foil of circuit board, and more.</p>

<p style="text-align: center;">Features</p>	
<p>Accurate graphing Due to its high sampling rate (2000Hz), it follows rapid force change, precisely detecting a peak value or even a tiny variation.</p>	<p>One-click operation Simply press the START button, then, it automatically peels test sample by required length, and return to the starting point.</p>
<p>Automatic recording It automatically records and graphs the measurement once you press the start button. It also automatically saves the data.</p>	<p>Visual-analysis You can overlay maximum 5 graphs, allowing for easy comparison and accurate analysis. Moreover, it automatically calculates Max/Min/Ave values and show them next to graphs.</p>

[Main functions]

[Test conditions]

◎**Peel length : 200mm**

You can peel 200mm at maximum.

◎**Stroke limit knob**

You can easily adjust peel length (stroke) by the knob.

◎**Sample height adjustment**

It handles samples at a height of up to 13mm. You can easily adjust the height by a knob.

[Secure a sample]

◎**Center line**

Attach a sample straight along with a center line, and fix it with Clip.

◎**Easy gripping**

Simply grip film with a supplied grip, and hook the grip to the sensor (load cell).



[Control panel]

◎**Organic EL display**

Clear organic display has excellent readability.

◎**Simple operation**

Simply press start button to perform peel test. It can be synchronized with a dedicated software.

◎**A wide range of test speed**

120, 200, 300, 500, 1000, 1500mm/min (Easily switchable by a knob)

[Output]

◎**USB connector**

You can connect it to a PC using a supplied USB cable.



Test process			
Attach a sample	Set test speed & peel length	Grip film	Start test
Attach a sample straight along with a center line	Select test speed by a dial, and adjust peel length by stroke limit knob.	Grip edge of film with a grip.	Press START button to start measurement. At the same time, it automatically records test data.

[Included software's main functions]

[Basic operation]

◎Save graphs automatically

It automatically starts graphing and saves the data using Trigger function.

◎Switch display due to plural tabs

It shows you graphs in plural tabs.

◎Enter text using a text box.

You can insert a text box at a desired point of a graph.

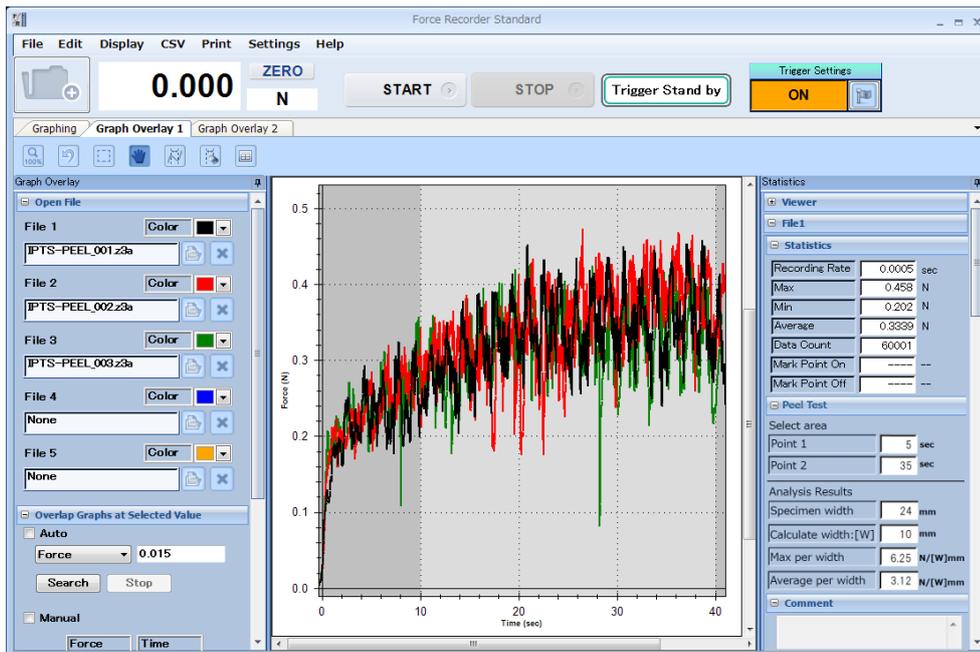
[Advanced operation]

◎Overlay graphs

You can overlay maximum 5 graphs, allowing for printing the overlaid graphs.

◎Zoom graph

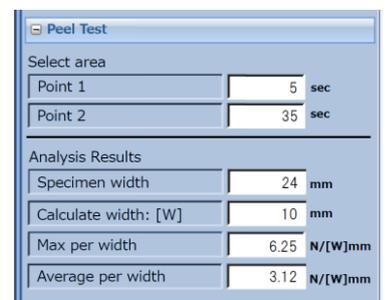
Simply specify an area with a mouse, then you can zoom-in the area. It can show you the Max/Min/Ave. values in the specified area. You can print or output it.



[Others]

◎Offers statistics

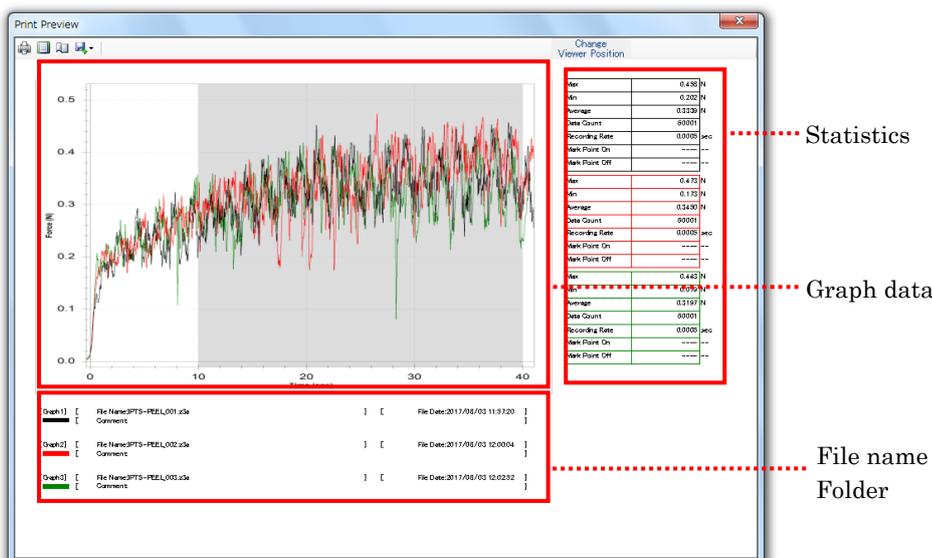
It shows you Max/Min/Ave. values. Moreover, you can input width of your test sample, then it shows you more detailed data such as N/(width)mm.



◎Enter text

You can enter text up to 198 characters. You can write a test conditions etc as required.

[Output sample image]



[Output]

◎Printing

Select paper size (A4 or letter size), then you can print it.

◎Digital output

You can output data in WORD/EXCEL/PDF format. Graph is attached as an image file.

Specifications		
Model	IPTS-20N	IPTS-50N
Capacity	20N	50N
Resolution	0.01N	
Accuracy	±0.2%F.S. ±1digit	
Overload	Approx.150%F.S (It warns with light flashing and buzzer when the force is over 110% of capacity.)	
Sampling rate	Max.2000 data / sec (2000Hz)	
Test speed	120, 200, 300, 500, 1000, 1500mm/min (Switchable)	
Stroke (length)	Travel of load cell: Approx. 400mm (Peel length : Approx.200mm)	
Peel angle	165°-180° (Height and angle are adjustable.)	
Max. sample width	Adhesion: 88mm (Grip: 20mm, Clamp: 50mm)	
Max. sample thickness	Grip: 3mm Clamp: 13mm	
Safety device	Emergency stop button, Overload prevention (Valid only when the power is ON) (*1)	
Power	AC100~240V free input (*2)	
Weight	Approx. 11kg	
Operating environment	Temperature: 0~40°C Humidity: 20~80%RH	
Accessories	Force Recorder Standard (graphing software) , USB cable, Power cable, Film grip, Inspection certificate, Instruction manual	

*1 You cannot prevent overload in some cases.

*2 Please specify the voltage when you order. (Accessory varies depending on voltage.)

Specifications for an included software	
Data transferring speed	Max. 2000 data / sec (2000Hz)
Recording data point	Max. 7.2 million
Graph	Graph overlaying function, Capture function, Graph scaling, Statistics output, Point marking
Graph recording	Trigger function
Edit	Insert textbox, borderline function
Output	Printing(A4, letter size), CSV, WORD, EXCEL, PDF
OS	Windows 7/8/8.1/10
Hardware	CPU: Pentium4(1GHz or more) or more is recommended. Memory: 2GB or more is recommended. Hard disk (data storage area): 10GB or more is recommended.
Plat form	.NET Framework4 or later
Execute environment	Microsoft Internet Explorer 6 or later Windows installer 3.1 or later
Image size	Resolution 1024×768 pixel or more
Connection port	USB1.1、 USB2.0 connecor * We do not guarantee operation in USB 3.0.

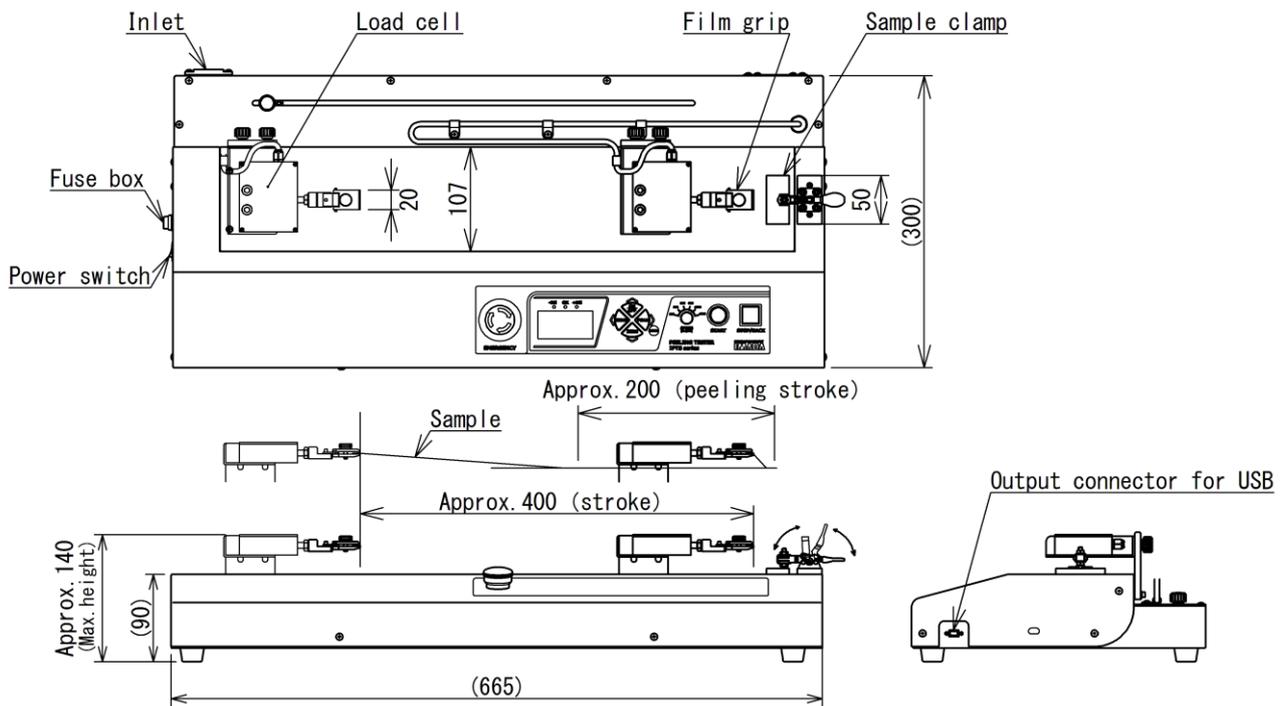
* Some old versions of EXCEL shows data up to 65,531 only.

Related products	
Rubber roller for peel test APR-97	Film cutter FSC-1525
	
With this roller, you can apply stable pressure to stick samples, improving repeatability.	This cutter enables you to cut film in constant-width, improving measurement efficiency.
It complies with a part of JIS Z 0237 (2009)	Width 15mm : a part of JIS Z1707:1997 Width 15mm : a part of JIS Z0238:1998 Width 1inch : a part of ATSM F88

You may also like...	
Fixture for 90 degree peel test P90-200	
This fixture enables you to perform 90 degree peel test, combined it with a force gauge and a test stand.	
This fixture complies with standards as the following. - IEC 249-1:1982 & IEC 326-2:1990 (JIS C5016:1994) <a part> - ISO 29862:2007 (JIS Z0237:2009) <a part> - Japanese Pharmacopoeia <a part> - ASTM D6862:2004 [Standard Test Method for 90 Degree Peel Resistance of Adhesives] <a part> - ASTM D3330:2010 [Standard Test Method for Peel Adhesion of Pressure-Sensitive Tape] <a part>	
Configuration (*) Digital force gauge: ZTS-50N Motorized test stand: MX2-500N Optional attachment: P90-200N Optional attachment: FC-21 Software: Force Recorder Standard Optional cable: CB-518	

*The best configuration is subject to shape, specifications of your test sample, or test conditions, so contact us for further information.

[Dimensions for IPTS-20N/50N]



[Notes]

- *The contents may be changed without prior notice.
- *This products is designed for measurement purpose only.
- *Do not copy the contents without permission.
- *The grip could not secure your sample depending on your test sample's materials or shapes. Contact us for advice before purchase.
- *Make sure to check if this tester's specification fits your test demands or not before purchase. In some cases, this tester does not fit your test demands.