

IMADA CO.,LTD.
 Peel tester

Peel tester for emboss carrier's cover film IPTS-5N

You can perform peel test of emboss carrier's cover film/tape complying with IEC or JIS. 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.



IPTS-5N

Test image

<p>IEC/JIS standards for peel test of emboss carrier tape</p>	<ul style="list-style-type: none"> • IEC 60286-3(2013) [Standard Packaging of components for automatic handling] (Peel test part) • JIS C0806-3(2014) [Packaging of components for automatic handling-Part 3: Packaging of surface mount components on continuous tapes](Peel test part)
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Features	
<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.

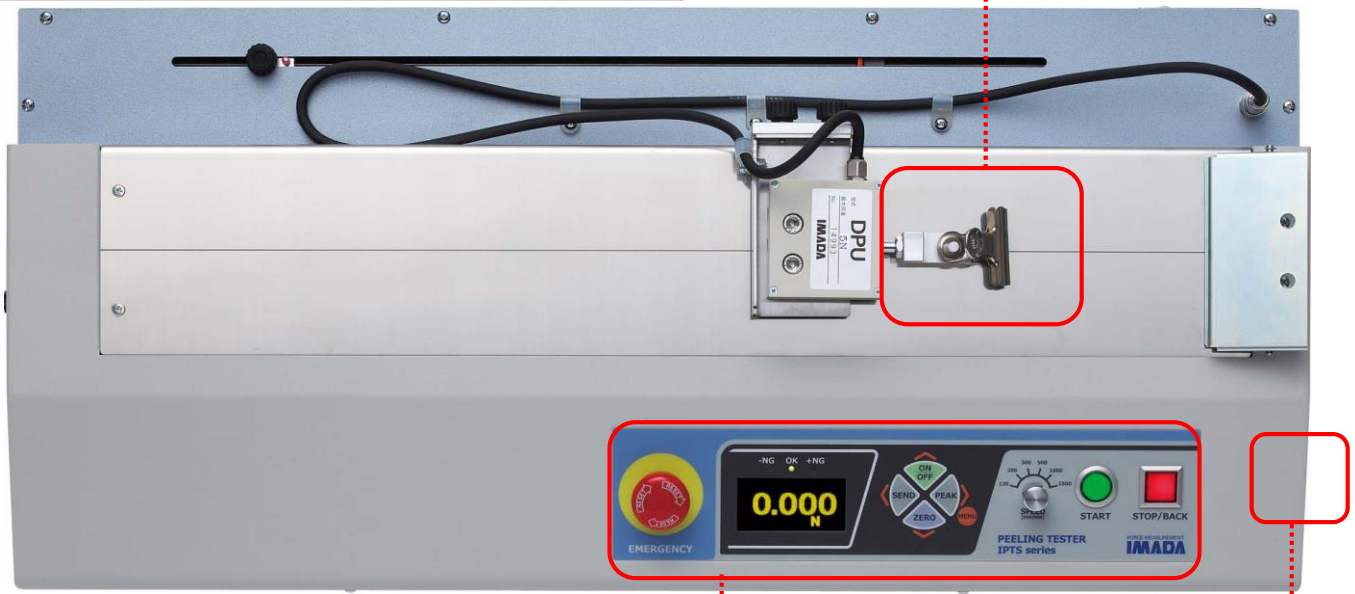
[Secure a sample]

◎**Center line**

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

◎**Easy gripping**

Simply grip film with a supplied clip, and hook the clip 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 clip.	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.

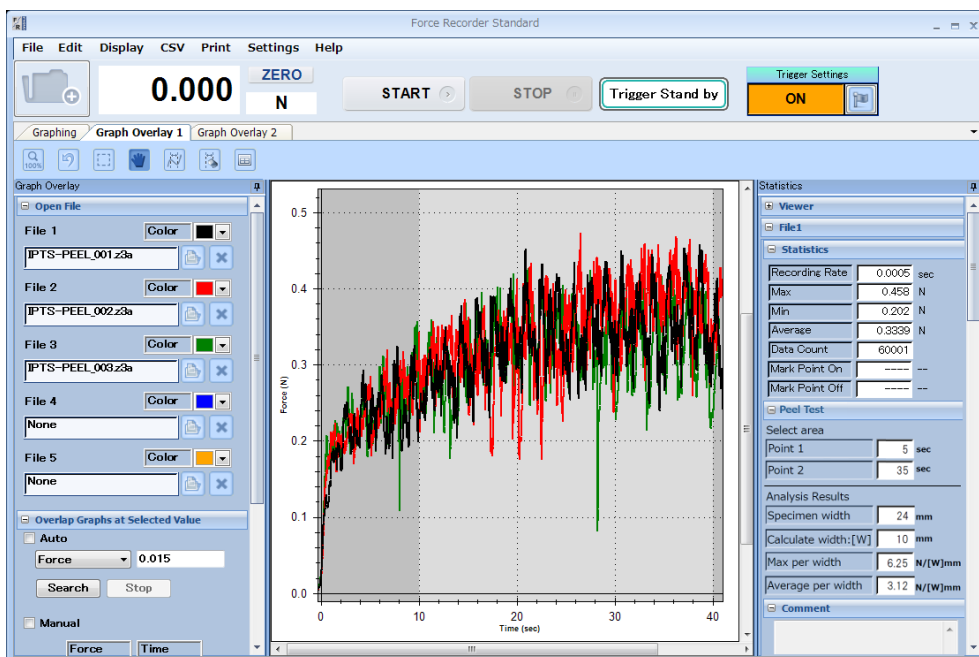
[Advanced operation]

◎Overlay graphs

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

◎Zoom graph

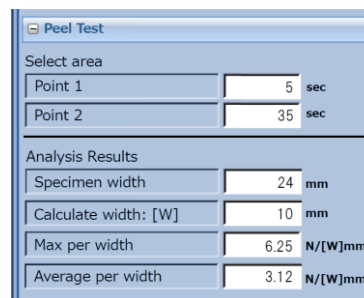
Simply specify an area with a mouse, then you can zoom-in the area. It can show you the Max/Min/Ave. values in the specified area. You can print or output it.



[Others]

◎Offers statistics

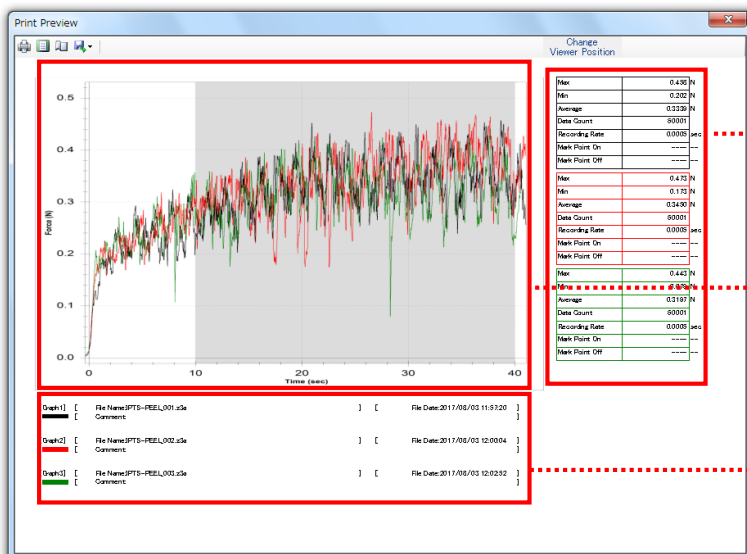
It shows you Max/Min/Ave. values. Moreover, you can input width of your test sample, then it shows you more detailed data such as N/(width)mm.



◎Enter text

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

[Output sample image]



Statistics

Graph data

File name
Folder

[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-5N
Capacity	5N
Resolution	0.001N
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 (Film clip: 40mm, Sample clip: 95mm)
Max. sample thickness	Cover film: 0.5mm
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.)

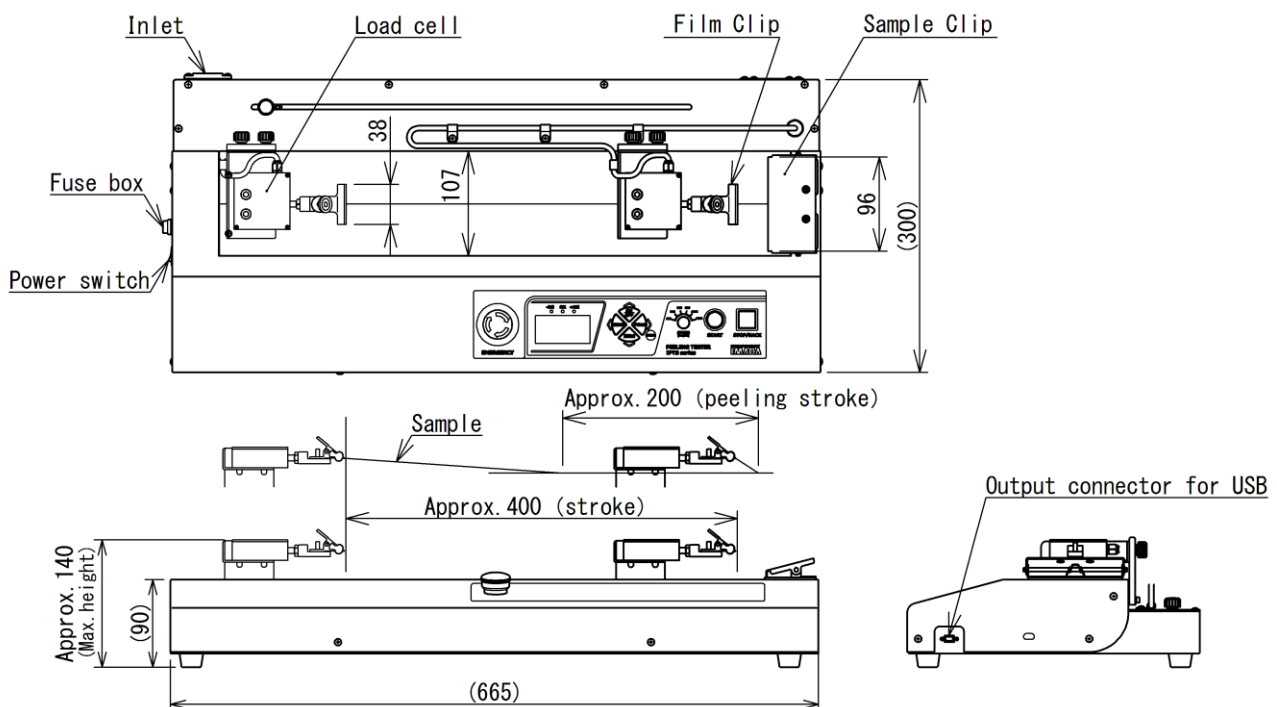
Specifications for an included software	
Data transferring speed	Max. 2000 data / sec (2000Hz)
Recording data point	Max. 7.2 million
Graph	Graph overlaying function, Capture function, Graph scaling, Statistics output, Point marking
Graph recording	Trigger function
Edit	Insert textbox, borderline function
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.

You may also like...	
Breaking tensile strength test of cover tape's film	Shear test of QFP lead & chip components
You can perform breaking tensile strength test complying with a part of JIS C0806-3(2014).	You can perform shear test complying with JIS Z 3198-6, JIS Z 3198-7(2003).
	
Configuration (*) : Digital force gauge: ZTS-200N Motorized test stand: MX2-500N-L Optional attachment: GC-60 (2 pcs) Optional software: Force Recorder Standard Optional cable: CB-518	Configuration (*) : Digital force gauge: ZTS-100N Motorized test stand: MX2-500N-L-V90 Optional attachment: LF Optional 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.

[IPTS-5N Dimensions]



[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.