

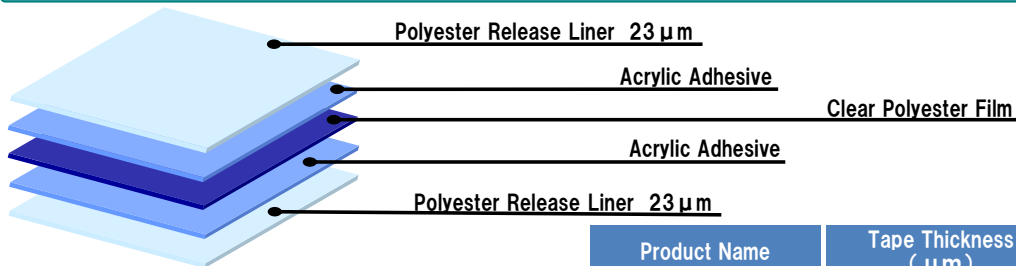
Double-coated adhesive tape

TY-F25W series

Outline

TY-F25W series are double coated adhesive tapes with excellent adhesion properties and repelling resistance. We have the various thickness line-up for your help. A series of all production process is conducted in clean-room.

Structure



Product Name	Tape Thickness (μm)	Base film (μm)
TY10 F25W	10	4
TY20 F25W	20	6
TY30 F25W	30	6
TY50 F25W	50	12
TY80 F25W	80	50
TY100 F25W	100	50

Properties

◆ Adhesive strength

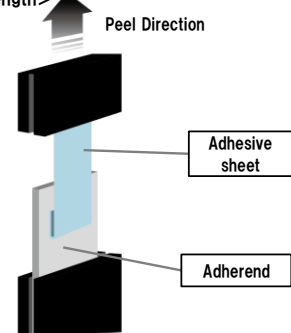
Substrate	TY10 F25W		TY20 F25W		TY30 F25W		TY50 F25W	
	20min.	24hrs.	20min.	24hrs.	20min.	24hrs.	20min.	24hrs.
SUS*	2.2	4.1	8.7	10.7	13.4	14.9	14.8	16.5
Glass	2.3	3.4	8.7	10.3	12.5	14.4	13.5	15.8
ABS	4.2	5.9	8.5	10.2	13.7	15.3	15.5	18.2
PS	3.3	4.1	8.5	9.7	13.7	14.9	16.2	17.7
PMMA	4.1	4.4	10.1	10.8	14.7	15.2	17.1	18.0
PC	4.3	5.0	8.6	9.8	13.9	14.8	15.2	16.8
PET	2.7	3.6	8.2	8.9	13.3	14.0	15.9	16.5
PI	3.7	4.7	9.1	10.4	13.9	15.1	16.0	17.6
Al	2.4	3.9	8.0	10.0	11.4	13.8	13.0	15.0

*Polished with # 360
Unit: N/25mm

Substrate	TY80 F25W		TY100 F25W	
	20min.	24hrs.	20min.	24hrs.
SUS*	13.8	17.9	20.8	26.2
Glass	13.3	15.8	19.9	23.5
ABS	13.9	16.8	19.6	23.9
PS	13.7	15.4	20.2	22.0
PMMA	16.2	16.2	22.9	23.5
PC	15.3	16.5	21.3	23.4
PET	14.8	15.0	21.2	21.3
PI	15.9	17.4	23.5	24.0
Al	10.1	14.6	16.0	21.3

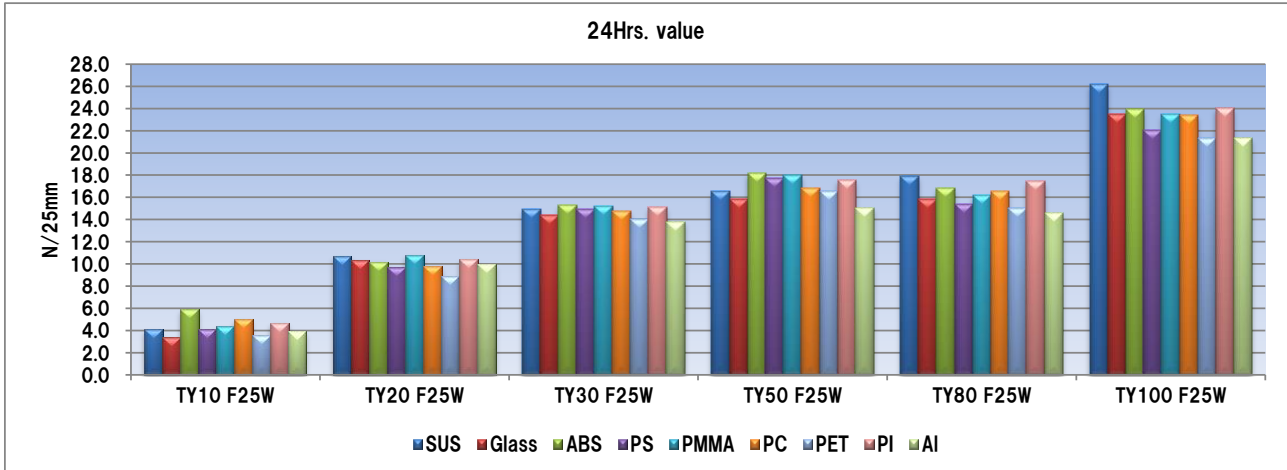
[Test method]
• JIS Z 0237 (2000)
• Peel Speed 300mm/min
• 180° Peel
• 23°C · 50%RH
• Lining material: PET#25
*Polished with # 360
Unit: N/25mm

<Fig.: Adhesive strength>



Properties

◆ Adhesive strength (24Hrs. Value)



◆ Adhesive strength after environmental test

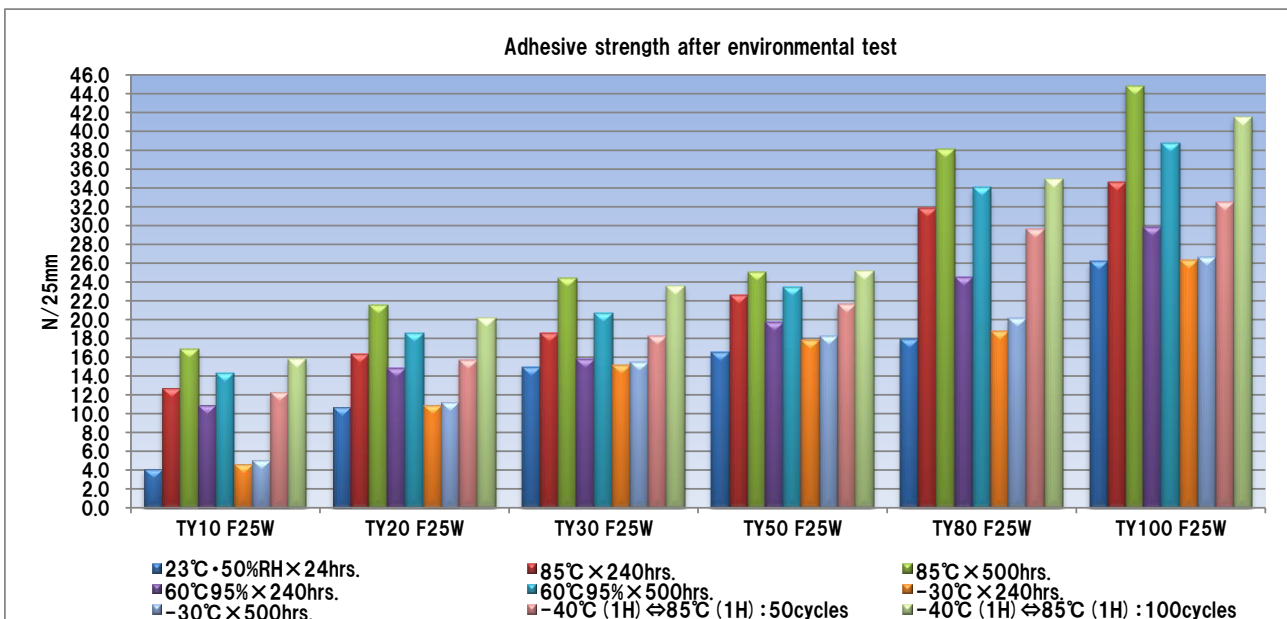
Test condition	TY10 F25W	TY20 F25W	TY30 F25W	TY50 F25W	TY80 F25W	TY100 F25W
23°C·50%RH×24hrs.	4.1	10.7	14.9	16.5	17.9	26.2
85°C×240hrs.	12.7	16.3	18.6	22.6	31.8 ※	34.6 ※
85°C×500hrs.	16.8 *	21.5 *	24.4 *	25.0 *	38.1 ※	44.8 ※
60°C95%×240hrs.	10.9	14.8	15.8	19.7	24.5 *	29.8 ※
60°C95%×500hrs.	14.3	18.5	20.7 *	23.4*	34.1 ※	38.8 ※
-30°C×240hrs.	4.6	10.9	15.2	17.8	18.7	26.3
-30°C×500hrs.	5.1	11.2	15.5	18.2	20.1	26.6
-40°C (1H) ⇄85°C (1H) :50cycles	12.3	15.7	18.2	21.6	29.6 ※	32.5 ※
-40°C (1H) ⇄85°C (1H) :100cycles	15.8 *	20.2 *	23.6 *	25.1 *	34.9 ※	41.5 ※

* Adhesive transfer
※ Adhesive cohesion

Unit: N/25mm

【Test method】

- JIS Z 0237 (2000)
- Peel Speed 300mm/min
- Substrate:Stainless steel (Polished with # 360)
- 180° Peel
- 23°C·50%RH
- Lining material: PET#25



Properties

◆Holding Power

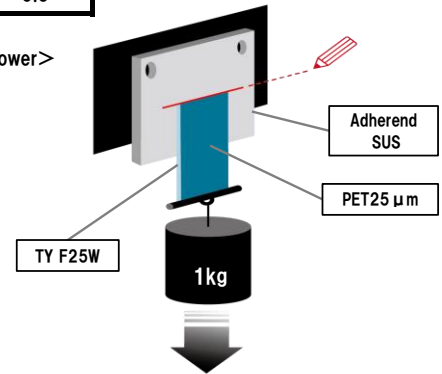
	TY10 F25W	TY20 F25W	TY30 F25W	TY50 F25W	TY80 F25W	TY100 F25W
40°C	0.1	0.1	0.2	0.2	0.2	0.2
80°C	0.4	0.4	0.5	0.5	0.5	0.5

Unit: mm/50000s

【Test method】

- Measure temperature: 40°C, 80°C
- Applied square: 25mm×25mm
- Lining material: PET#25
- Weight: 1Kg
- Substrate: Stainless steel (Polished with # 360)

<Fig.: Holding Power>



◆Ball Tack

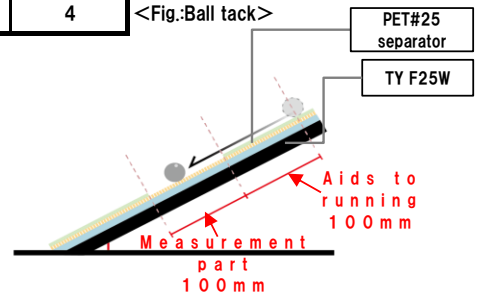
	TY10 F25W	TY20 F25W	TY30 F25W	TY50 F25W	TY80 F25W	TY100 F25W
Ball tack(No.)	1	1	3	4	4	4

Unit: Ball No.

【Test method】

- J.DOW method
- Angle: 30°
- Approach runway: 100mm, measurement distance : 100mm
- Test condition 23°C・50%RH

<Fig.:Ball tack>



◆Shear Adhesive Strength

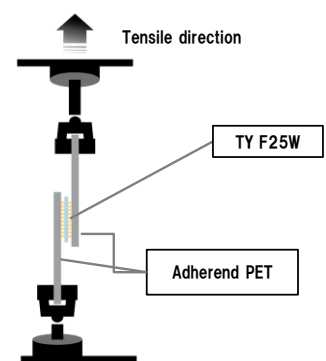
	TY10 F25W	TY20 F25W	TY30 F25W	TY50 F25W	TY80 F25W	TY100 F25W
10mm×10mm	88	110	130	188	154	250
20mm×20mm	340	400	>500	>500	>500	>500

Unit: N/10mm×10mm, N/20mm×20mm

【Test method】

- Applied square: 10mm×10mm, 20mm×20mm
- Peel speed: 300mm/min
- Test condition: 23°C・50%RH
- Adherend: PET/PET

<Fig.:Shear Adhesive Strength>



◆Stable Weight Peeling

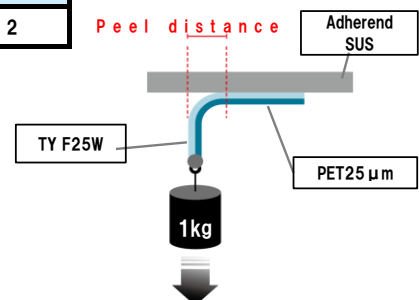
	TY10 F25W	TY20 F25W	TY30 F25W	TY50 F25W	TY80 F25W	TY100 F25W
Peel distance	14	6	4	2	3	2

Unit: mm/90min

【Test method】

- Applied Square: 20mm×70mm
- Weight: 100g
- Test condition: 23°C・50%RH
- Substrate: Stainless steel (Polished with # 360)
- Measuring Time: 90minutes

< Fig.:Stable weight peeling >



Notices

Attach after wiping off oily, dusty and moisture substances on the surface of the adherend you may use.

Give an enough pressure when attaching, under the temperature condition over 10°C as possible.

Store it in a cool, dark place away from direct sunlight.

These data are representative so as not to guarantee for your conditions,nor do they for the wide range of each application described in this technical information.

Examining the compatibility of the adherend material with our product in advance, make a decision of starting to use.

Such as know-hows contained in this document, trade secrets, copyrights, and patents,each of all intellectual property's rights belongs only to our company.

Any copies, reprints, reproductions and disclosing any part of this document to a third party are prohibited without our prior approval.

All information and data in here should be used as a guide.

They do not constitute a warranty of any kind by NEION Film Coatings Corp.