

Double-coated adhesive tape with positionable function

PT-0190FX

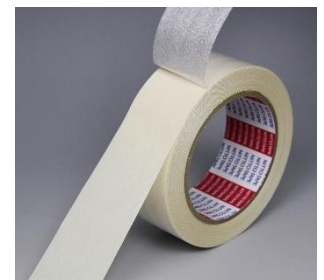
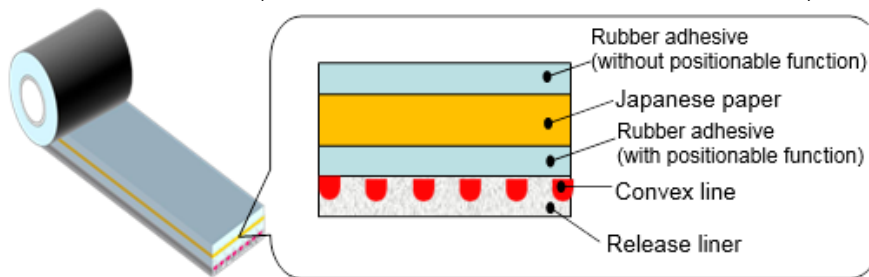
Outline

PT-0190FX is a double-coated adhesive tape having special resin striped-line on the adhesive. It is a positionable tape that will adhere firmly to the substrate once it is firmly pressed with pressure. A foam release liner is used as a cushion to protect the design of convex lines and helps to maintain a stable position. Consisting of a strong Japanese paper carrier and high cohesive strength adhesive, this tape is less likely to be torn when it is removed after use and leaves little to no adhesive residue.

Structure

PT-0190FX

【Tape thickness: 0.13mm (does not include the convex line or liner thickness)】



* Japanese paper is categorized as

class 48, "paper, paper board, and paper pulp, paper product or paper board product" in the appendix of the Customs Tariff Act.

Features

- Convex lines on the adhesive allows the tape to adjust the position and reapply when adhering to substrates.
- Less likely to leave adhesive residue and has good removability
- Japanese paper carrier gives strength to the tape, so the tape is not easy to be torn when removing
- Ten restricted substances by RoHS are not contained

Applications

- Bonding wallpapers, cushion floors, etc.
- Ideal for re-peeling

Sizes

Tape thickness (mm)	Width (mm)	Length (M)
0.13	20 – 1200	10

For more information, please contact us.

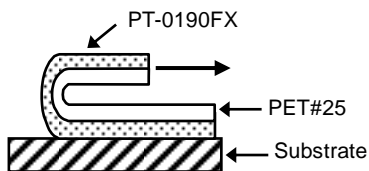
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Properties

●180 degree peel adhesion – By substrate –

Substrate	Without positionable function (1st adhesive face)	With positionable function (2nd adhesive face)
Stainless steel plate	7.5	6.5
Polypropylene plate	7.3	7.0
ABS plate	7.8	7.5
PET plate	8.8	8.5
Front face of wallpaper (PVC)	2.0	1.7
Back face of wallpaper (paper)	6.7	5.4
Front face of cushion floor (PVC)	6.4	5.8
Back face of cushion floor (special glass fiber)	4.9	4.1
Melamine board	8.2	7.9
Nitrile rubber	6.0	5.5



Unit: N/20mm

Tape area: 20mm

Lining material: PET#25

Application condition: 1 pass back and forth with a 2-kg roller
at 23°C/50%RH

Applying condition: 23°C/50%RHx30min

Peeling speed: 300 mm/min

Peeling angle: 180 degree

Measurement temperature: 23°C/50%RH

●180 degree peel strength – Adhesive strength change over time after pressure –

Time	Without positionable function (1st adhesive face)	With positionable function (2nd adhesive face)
30 min	7.5	6.5
4 hrs	7.5	7.5
12 hrs	7.6	7.5
24 hrs	7.8	7.8
72 hrs	7.8	7.8

Unit: N/20mm

Tape area: 20mm

Substrate: stainless plate

Lining material: PET#25

Pressing condition: 1 pass back and forth with a 2-kg roller
at 23°C/50%RH

Applying condition: 23°C/50%RHx30min, 4hrs, 12hrs, 24hrs and 72hrs

Peeling speed: 300mm/min

Peeling angle: 180 degree

Measurement temperature: 23°C/50%RH

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● 180 degree peel adhesion – By temperature –

Temperature	Without positionable function (1st adhesive face)	With positionable function (2nd adhesive face)
- 10°C	13.6	12.8
0°C	13.5	12.0
23°C	7.5	6.5
40°C	5.2	4.9
60°C	3.8	3.6
80°C	3.0	3.0

Unit: N/20mm
Tape area: 20mm
Substrate: stainless plate
Lining material: PET#25
Pressing condition: 1 pass back and forth with a 2-kg roller
at 23°C /50%RH
Applying condition: each measurement temp x 30min
Peeling speed: 300mm/min
Peeling angle: 180 degree
Measurement temperature: -10, 0, 23, 40, 60 and 80°C

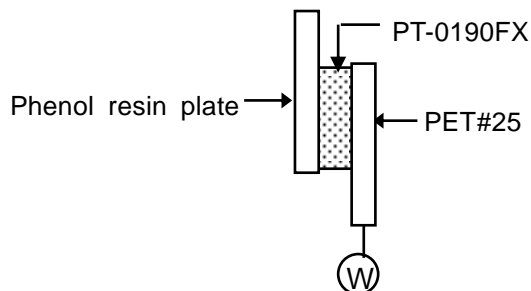
● 180 degree peel adhesion – At low temperature –

Atmosphere temperature	Without positionable function (1st adhesive face)	With positionable function (2nd adhesive face)
- 10°C	4.3	2.5
0°C	8.9	8.2

Unit: N/20mm
Tape area: 20mm
Substrate: stainless plate
Lining material: PET#25
Pressing condition: 1 pass back and forth with a 2-kg roller
Pressing temperature: at each temperature
Applying condition: each measurement temp x 30min
Peeling speed: 300mm/min
Peeling angle: 180 degree
Measurement temperature: -10, 0°C

● Holding power

Holding power	Without positionable function (1st adhesive face)	With positionable function (2nd adhesive face)
40°C	0.1	0.2



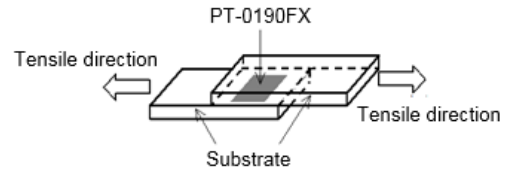
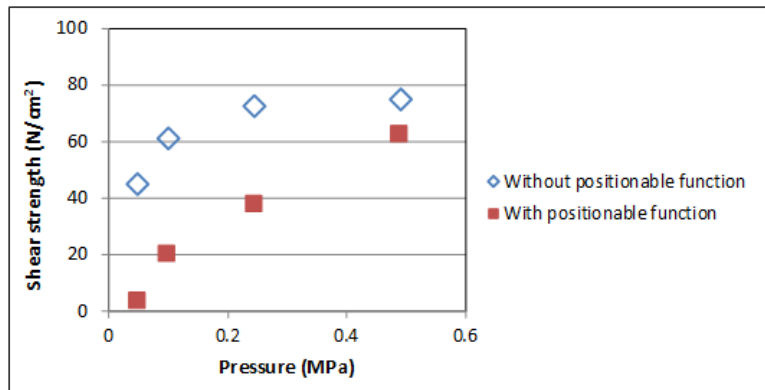
Unit: mm/hr
Substrate: phenol resin plate
Pressing condition: 1 pass back and forth with a 2-kg roller
at 23°C /50%RH
Application area: 10mm x 20mm
Applying condition: measurement temp x 30min
Measurement temperature: 40°C
Load: 4.9N (500g)
Loading time: 1hr

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● Shear strength – By pressure –

Pressure (MPa)	Without positionable function (1st adhesive face)	With positionable function (2nd adhesive face)
0.05	45	4
0.10	61	20
0.25	73	38
0.50	75	63



Unit: N/cm²

Sample: 20mm x 20mm

Substrate: Stainless plate

Pressing condition: each pressure x 5 sec
at 23°C /50%RH

Applying condition: 23°C /50%RHx30min

Measurement condition: 23°C /50%RH

Peeling speed: 50mm/min

● 180 degree peel adhesion – Storage at each condition after application (durability) –

Conditions	Without positionable function (1st adhesive face)	With positionable function (2nd adhesive face)
Initial (23°C/50%RHx30min)	7.5	6.5
- 30°C x 30 days	7.5	7.2
80°C	1 day	9.3
	7 days	11.3
	14 days	11.8
	30 days	11.9
40°C/92%RH	14 days	8.3
	30 days	8.9
Heat shock [100 cycles] * 1	10.0	10.0
Heat cycle [40 cycles] * 2	10.2	10.2

* 1: Heat shock condition
[-40°Cx30min ⇔ 90°Cx30min] x 100 cycles

* 2: Heat cycle condition
[-20°C x 6hr ⇒ (1hr) ⇒ 60°C/95%RHx6hr ⇒ (1hr) ⇒] x 40 cycles

Unit: N/20mm

Substrate: Stainless plate

Lining material: PET#25

Pressing condition: 1 pass back and forth with a 2-kg roller
at 23°C /50%RH

Storage condition: see the above table

Peeling speed: 300mm/min

Peeling angle: 180 degree

Measurement temperature: 23°C/50%RH

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Precautions when using

- Remove all oil, moisture and dirt from the surface of the substrate before applying.
- Depending upon the type of substrates, positionable function may not perform.
- Since the tape is pressure-sensitive adhesive, be sure to apply enough pressure with a roller or press when applying. Otherwise it might be affected to its properties and appearance.
- The tape may not adhere well to extremely uneven or distorted surfaces. Enough Leveling off the surface should be required before applying.
- It takes certain time to get full adhesive strength after applying, keep away the tape from any stress for a several hours after applying.

Precautions when storing

- Please be sure to keep the tape in its box when not using.
- Please keep in a cool dark place and away from direct sunlight.

Safety precautions

WARNING 
<ul style="list-style-type: none">• Make sure the product is suitable for the application (objective and conditions) before attempting to use. The tape may come off depending on the substrate to which it is applied or conditions under which it is applied.• Use in combination with another method of joining if there is possibility of an accident.

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