

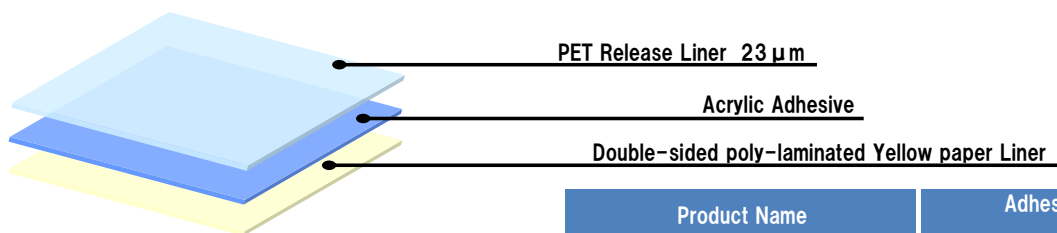
Substrate-free double-sided adhesive tape

SFA-105 , 110

Outline

SFA-105, 110 are substrate-free double-sided adhesive tapes.
It has excellent adhesion to many adherends.
Toluene-free type, suitable for VOC countermeasure applications.

Structure



| Product Name | Adhesive Thickness (μm) |
|--------------|-------------------------|
| SFA-105 | 50 |
| SFA-110 | 100 |

Properties

◆Adhesive strength

| | | | Measured value | |
|--|-----------------------------|--------|----------------|---------|
| | | | SFA-105 | SFA-110 |
| Adhesive Strength 180° Peel (N/25mm) | SUS (# 360 Polishing) | 20min. | 13.8 | 16.9 |
| | | 24Hrs. | 19.7 | 28.1 |
| | Aluminum | 20min. | 10.4 | 12.6 |
| | | 24Hrs. | 14.5 | 21.3 |
| | Acrylic | 20min. | 11.6 | 13.8 |
| | | 24Hrs. | 15.0 | 20.6 |
| | PP | 20min. | 4.4 | 5.9 |
| | | 24Hrs. | 5.8 | 7.1 |
| Adhesive Strength 90° Peel (N/25mm) | SUS (# 360 Polishing) | 20min. | 6.5 | 9.7 |
| | | 24Hrs. | 14.4 | 19.1 |
| | Aluminum | 20min. | 7.1 | 10.7 |
| | | 24Hrs. | 12.0 | 20.5 |
| | Acrylic | 20min. | 10.1 | 12.6 |
| | | 24Hrs. | 12.1 | 20.2 |
| | PP | 20min. | 3.9 | 5.2 |
| | | 24Hrs. | 5.1 | 6.4 |

【Test method】

•JIS Z1528

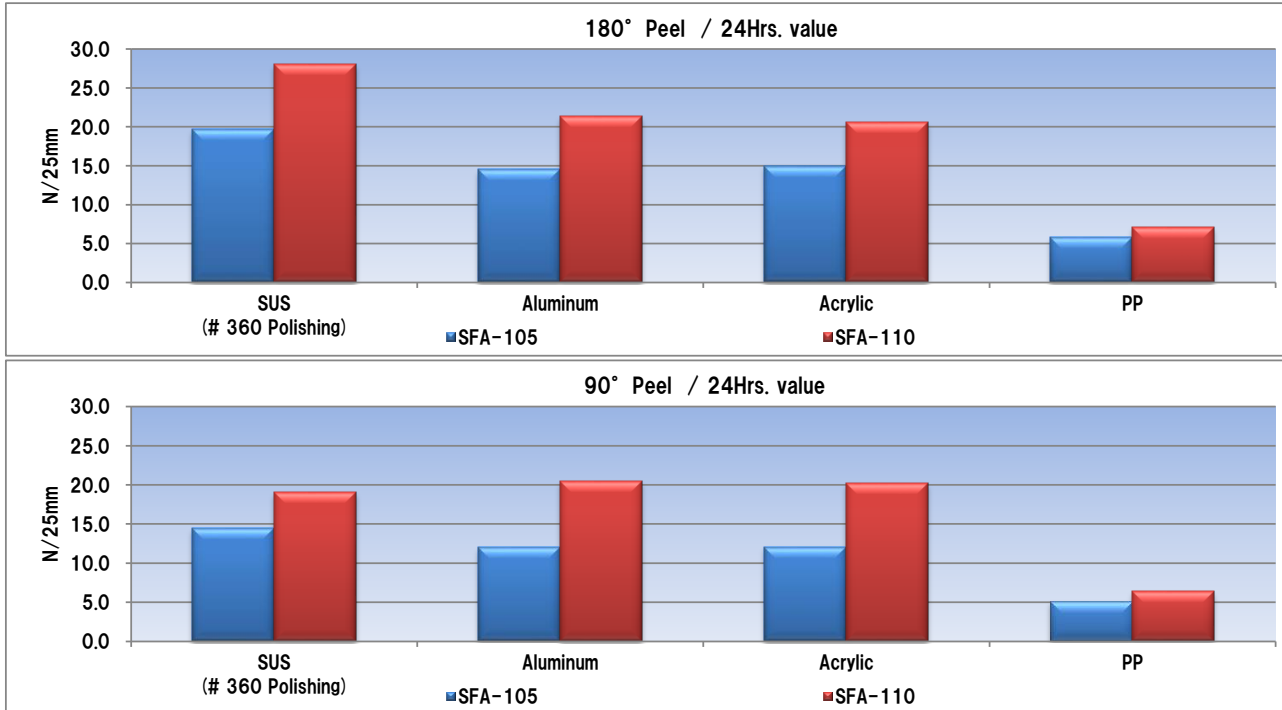
•Test condition 23°C・50%RH

•Peel Speed 300mm/min

•Lining material: PET#25

Properties

◆ Adhesive strength



◆ Adhesive strength After The Environmental Test

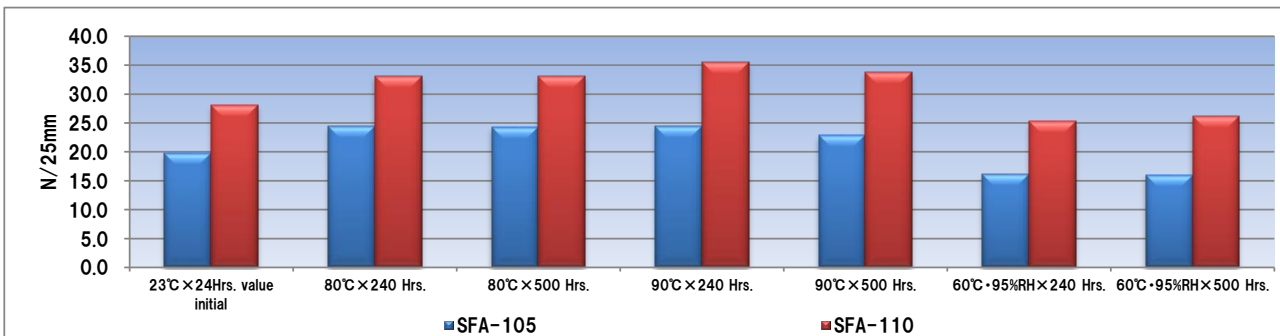
| Test condition | Measured value | |
|---------------------------|----------------|---------|
| | SFA-105 | SFA-110 |
| 23°C×24Hrs. value initial | 19.7 | 28.1 |
| 80°C×240 Hrs. | 24.4 AT | 33.1 AT |
| 80°C×500 Hrs. | 24.2 AT | 33.1 AT |
| 90°C×240 Hrs. | 24.4 AT | 35.5 AT |
| 90°C×500 Hrs. | 22.9 AT | 33.8 AT |
| 60°C·95%RH×240 Hrs. | 16.1 AT | 25.3 AT |
| 60°C·95%RH×500 Hrs. | 16.0 AT | 26.1 AT |

Unit: N.25mm

AT:Adhesive Transfer

【Test method】

- JIS Z1528 •Peel Speed 300mm/min •180° Peel •Test condition 23°C·50%RH
- Lining material: PET#25 •Substrate: SUS (# 360 Polishing) •Environmental test → measured after 23° C x 1 hour



Properties

◆Adhesion at 80°C atmosphere

| | | Measured value | |
|---------------------------------------|-----------------------------|----------------|------------|
| | | SFA-105 | SFA-110 |
| Adhesive strength at 80°C (N/25mm) | SUS (# 360 Polishing) | 12.1 AT | 18.5 AT |

【Test method】

- JIS Z1528 •Peel Speed 300mm/min
- 180° Peel •Temperature:80°C •Lining material: PET#25

AT:Adhesive Transfer

◆Holding Power

| | | Measured value | |
|-------------|------|----------------|---------|
| | | SFA-105 | SFA-110 |
| mm/50000sec | 40°C | 0.1 | 0.2 |
| | 80°C | 0.3 | 0.3 |
| mm/1hr | 25°C | 0.0 | 0.0 |
| | 40°C | 0.0 | 0.0 |
| | 80°C | 0.0 | 0.0 |

【Test method】

- Load 1kg •25mm×25mm •Substrate:Stainless steel (Polished with # 360)
- Lining material: PET#25

◆Ball Tack

| | Measured value | |
|----------|----------------|---------|
| | SFA-105 | SFA-110 |
| Ball No. | 4 | 4 |

【Test method】

- J.DOW Method (23°C)

◆Shearing adhesive strength

| | | Measured value | |
|--|------|----------------|---------|
| | | SFA-105 | SFA-110 |
| Shearing adhesive strength N/cm ² | 40°C | ≧ 500 | ≧ 500 |
| | 80°C | 128.0 | 258.9 |
| | 40°C | 108.5 | 224.7 |
| | 80°C | 52.5 | 77.5 |
| | 80°C | 20.7 | 37.6 |

【Test method】

- Sample: 10mm x 10mm •Peel Speed 300mm/min •Substrate:Stainless steel (Polished with # 360)
- Curing condition: 23°C•50%RH x 24hrs.

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.

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