



Adhesive Tape & PSA

Adhesive Taps Solutions for Rear View Mirror Heaters

Introduction

As the automotive industry flourishes globally, F6 was already part of in the automotive market with high-performance industrial adhesive tapes. Our adhesive solutions have developed continuously in response to increasing customer demands. Drawing upon years of rich experience serving prominent automotive manufacturers such as BMW, Mercedes-Benz, Volkswagen throughout the supply chain, F6 has developed specialized adhesive systems highly tailored to the automotive industry. Nowadays, our functional double-sided adhesive tapes have emerged as pioneers in the automotive industry adhesive tape.

Feature & Application

All double-sided adhesive tape series used in automotive applications exhibit outstanding adhesive performance. PET Double-sided Adhesive Tape (F708) is characterized by excellent peel adhesion, push-out resistance, shear resistance, and high impact resistance. Meanwhile, polyethylene foam tape possesses exceptional adhesion, high temperature resistance, and shock absorption and sealing capabilities.

Therefore, these series are suitable for demanding applications such as automotive interior parts, nameplates, or rearview mirrors, membrane switch. The PET Double-sided Adhesive Tape used in these series exhibits excellent good die-cuttability.

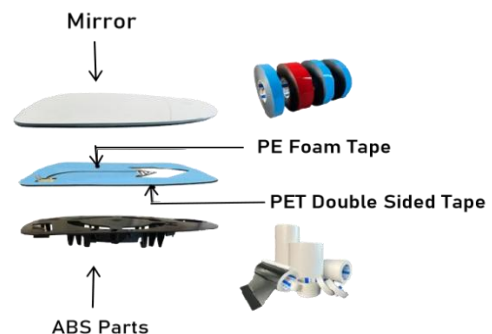
Product Criteria

All F6 products are developed on the basis of scientific research and undergo extensive critical testing. We strive for highest quality in our internal processes, and final products. Under strict adherence to the ISO 9001, all products of F6 have obtained basic compliance with RoHS, REACH, CA 65, as well as the high standards required in the automotive industry, such as Mercedes-Benz V/W205 testing.

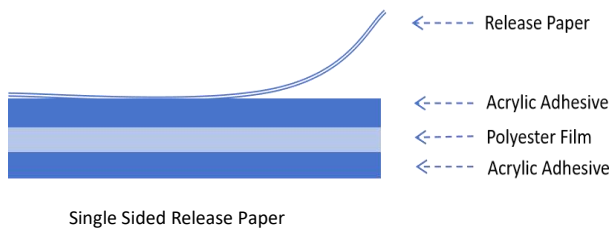
ROHS, REACH, CA 65, V/W205 and other required certificates will be promptly updated according to validity period and customer demands.

Partner

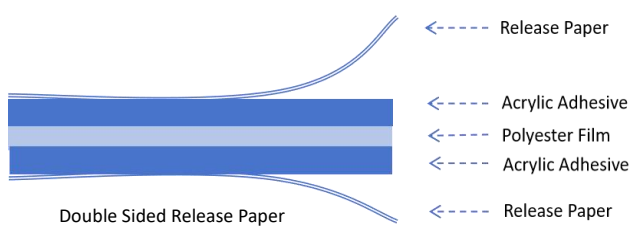
- Volkswagen
- Toyota
- Mercedes-Benz
- Audi
- BMW
- Ford



Construction - F708 PET Double Sided Tape



- 110 μm white PCK liner
- With Blue F6® Classic Double Sided Tape Logo
- 110 厚
- 50 μm Premium Acrylic Adhesive
- 25 μm Flexible Polyester Film
- 50 μm Premium Acrylic Adhesive



- 110 μm PCK liner
- With Blue F6® Classic Double Sided Tape Logo
- 50 μm Premium Acrylic Adhesive
- 25μm Flexible Polyester Film
- 50 μm Premium Acrylic Adhesive
- 110 μm white PCK liner

Performance Testing

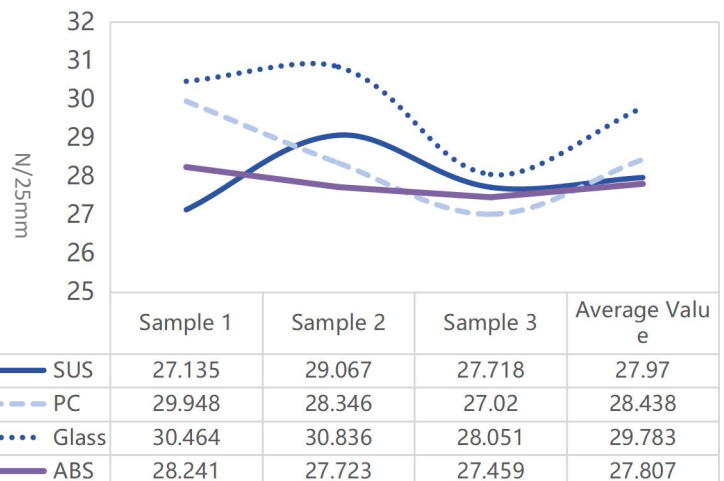
1. 180° Peeling Strength for Covered/Open Side

- Unit: N/25mm
- Substrate: 50mm*145mm 304 SUS plate
- Sample Width: 25mm
- Backing Material: PET film
- Application Condition:
3 pass back and forth with a 2.5kg roller
- Peeling Speed: 300mm/min
- Peeling Angle: 180°
- Measurement Condition: 23℃/65%RH×30min
- Measurement Temperature: Normal Temperature

180° Peeling Strength for Covered/Open Side	
Test Surface	Standard Value (N/25mm)
Open Sided	22
Cover Sided	26

2. 180° Peeling Strength for Each Substrate

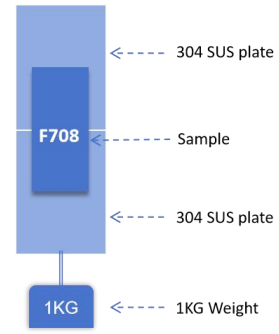
- Unit: °C/1h
- Substrate: SUS/PC/Glass/ABS
- *Conventional Lamination Materials for Reflective Mirror
- Sample Width: 25mm
- Backing Material: PET film
- Application Condition:
3 pass back and forth with a 2.5kg roller
- Peeling Speed: 300mm/min
- Peeling Angle: 180°
- Measurement Condition: 23℃/65%RH×30min



Note: The special double sided blue glass rear view mirror typically features a surface coating containing specific ingredients, which may affect the adhesive properties of tape. It requires the use of adhesion promoters for optimal adhesion.

3. Testing Condition of 80°C Holding Power

- Unit: mm/hr
- Substrate: 50mm*145mm 304 Stainless Steel
- Pressing condition:
3 pass back and forth with 2.5kg at 23°C/65%RH
- Applying condition : 80°C/65%RH×30min
- Tape area : 50mm*50mm
- Load : 10N(1kg)
- Load time : 1hr



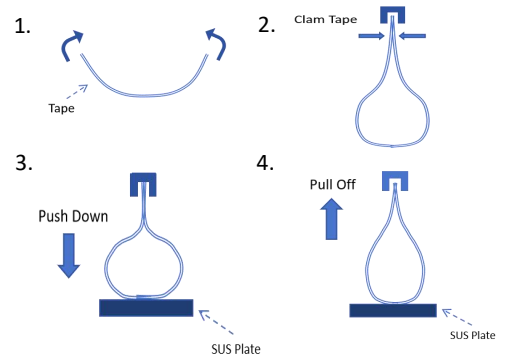
Test result:

80°C Holding Power

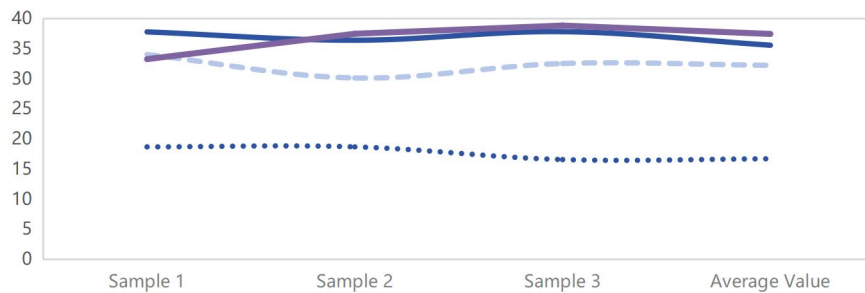
Item	Test Value
Load Time	1hr
Shedding Distance	0.65mm

4. Loop Tack /Quick Stick Method

- Unit:N/25mm
- Substrate: Glass/PC/ABS/Plate
- Sample Width:22mm*175mm
- Peeling Speed: 300mm/min
- Contact Area: 25mm*25mm
- Measurement Temperature: 23°C/50%RH



Test Result:



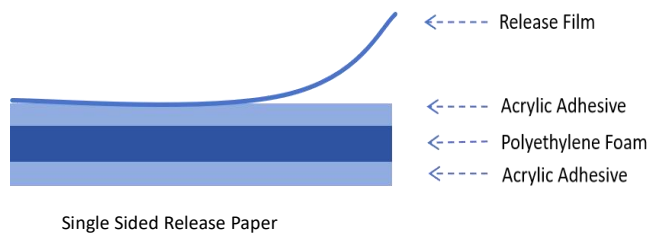
	SUS	Glass	ABS	PC
Sample 1 (N/25mm)	37.759	33.998	18.658	33.238
Sample 2 (N/25mm)	36.376	30.107	18.659	37.45
Sample 3 (N/25mm)	37.802	32.506	16.548	38.813
Average Value (N/25mm)	35.547	32.204	16.68	37.421

4. 180° & 90° Peeling Adhesion After Aging

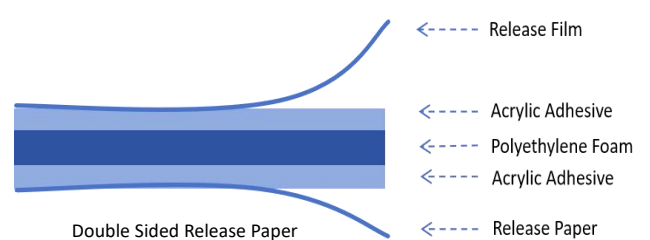
- Unit:N/25mm
- Sample Width:25mm
- Backing Material: PET film
- Application Condition:
3 pass back and forth with a 2.5kg roller
- Peeling Speed: 300mm/min, 100mm/min
- Peeling Angle: 180°, 90°
- Measurement Temperature: 23°C/65%RH
- Anti-aging conditions:
*[80°C/60%RH×4hrs ⇒ -30°C/60%RH×4hrs
⇒ 23°C/60%RH×4hrs] ×4 cycles

180° & 90° Peeling Adhesion After Aging		
Peeling Angle	Initial Value (N/25mm)	After Aging Value (N/25mm)
180°	27.5	28
90°	19	24

Construction - F0805K PE Foam Double Sided Tape



- 110 μm Release liner
- 50 μm Premium Acrylic Adhesive
- 500 μm Polyethylene Foam
- 50 μm Premium Acrylic Adhesive

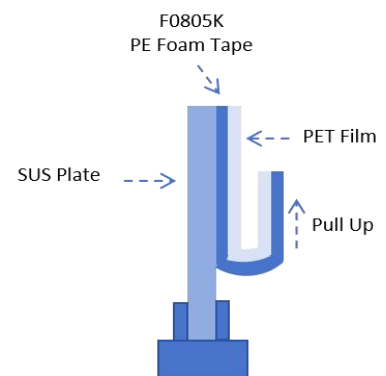


- 110 μm Release liner
- 50 μm Premium Acrylic Adhesive
- 500 μm Polyethylene Foam
- 50 μm Premium Acrylic Adhesive
- 100 μm White Release Paper

Performance Testing

1. 180° Peeling Adhesion by Substrates

- Unit:N/25mm
- Sample Width:25mm
- Backing Material: PET film
- Application Condition:
3 pass back and forth with a 2.5kg roller
- Peeling Speed: 300mm/min
- Peeling Angle: 180 degree
- Measurement Temperature: 23°C/65%RH



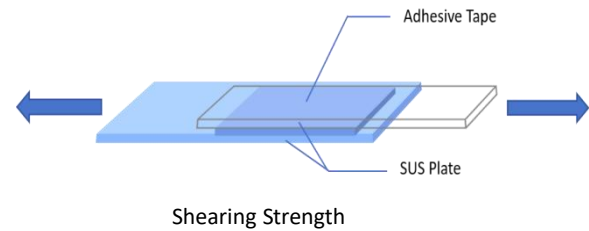
Test result:

Sample No.	Shear Strength (N/cm ²)
Sample 1	Substrate Break
Sample 2	Substrate Break
Sample 3	Substrate Break
Sample 4	25.418

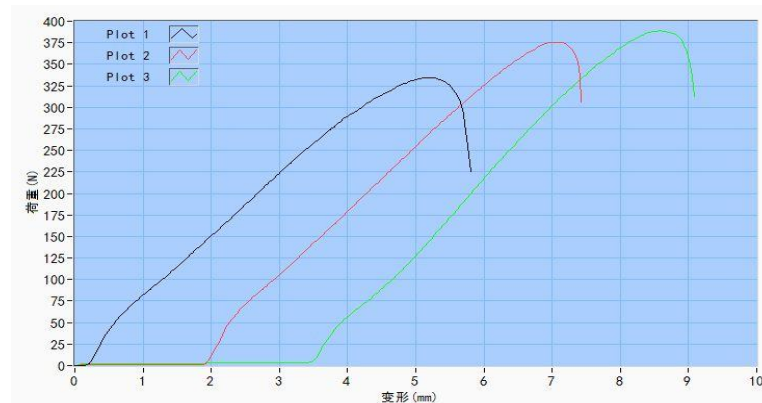
*The test results are for reference only; actual product performance prevails in practical use.

2. Shearing Strength

- Unit: N/25mm
- Sample Width: 20mm x 20mm
- Backing Material: PET film
- Application Condition:
3 pass back and forth with a 2.5kg roller
- Peeling Speed: 50mm/min
- Measurement Temperature: 23°C/65%RH



Test Result:



Sample No.	Shear Strength (N/cm ²)
Sample 1	36.009
Sample 2	35.418
Sample 3	43.609
Max Value.	43.609
Min Value.	35.418
Average Value	38.345

Responsibility of supplying

We will strictly control the quality of each batch of products and processes.

The following terms are for reference only.

- Inspection reports for each batch of shipped products will be provided post-production.
- When significant changes that may affect product quality, such as process modifications or substrate changes, occur, we will provide relevant reports to the first party for their assessment of potential adverse impacts on subsequent product quality.
- Under normal conditions, there's a six-month quality guarantee from the production date. If any quality issues arise within one month of receipt, and the product remains unused with intact packaging and no visible damage, exchanges or refunds can be arranged.
- All notifications and approvals related to the placement of orders shall be in written form, and any changes to the information shall be notified to the other party with a 15-day advance notice.
- If either party is unable to fulfill its obligations due to force majeure events such as fire, flood, hurricane, earthquake, other natural disasters, war, terrorism, riot, rebellion, revolution, or internal unrest, the affected party shall be exempt from performance during the duration of the event.

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