We Provide a Variety of Product Ranges Catering for an array of Usage Requirements.

Adhesive/FIXing Function

ADSORBENT  ×  SURFACE
ADHESIVE  ×  FUNCTION
“FIXFILM” is a collective brand using highly developed and accurate design technology, high precise coating technology to offer an array of functional films. Our wide ranging product line-up can cater for a number of diverse applications.
The “FIXFILM” adsorbent type is a functional polyester adsorbent film developed uniquely by FUJICOPIAN CO., LTD.

- Pushing air out from between the target surface and the film creates a vacuum effect.
- The film’s strong holding force can be used with a variety of smooth surfaces such as glass, metal and plastic, etc.
- Letting air in between the film and the target surface allows the film to be easily peeled off.
- No adhesive is required for the affixing of our film, avoiding the mess of excess adhesive seeping out around the edges.

*This photograph is a representation only.

Achieved the combination of strong holding force and easy peeling off

**<Reference Values>**

On Glass

**Adhering force:** 10N/cm²  
(HG and STD series (both) : 10N/cm²)

**Peeling Force:**
- HG1-STD1(both): 0.011N/25mm
- HG2-STD2(both): 0.020N/25mm
- HG3: 0.056N/25mm

**Shearing force:** 20N/cm²  
(HG and STD series (both): 20N/cm²)

- HG1-STD1(both): Low Peeling Resistance Type
- HG2-STD2(both): Medium Peeling Resistance Type
- HG3: High Peeling Resistance Type
**Adsorbing and Peeling Characteristics**
Without using adhesives, the film provides a strong adsorbing and shearing force on flat surfaces such as glass, metal and plastic etc and is also easy to peel off.

**Optical Characteristics**
An optical film featuring a colorless and transparent adsorbent treatment, providing a highly transparent finish. (HG Series)

**Anti-Static Property**
The film has undergone an anti-static treatment process, allowing it to prevent dust and other debris from sticking to the surface and also prevents static electricity, avoiding any adverse effects. (HG Series)

**Environmental Characteristics**
Suitable for use in a variety of environments. (HG Series, STD Series).

<table>
<thead>
<tr>
<th>FIXFILM</th>
<th>STD1</th>
<th>HG1</th>
<th>STD2</th>
<th>HG2</th>
<th>HG2-50E</th>
<th>HG3</th>
</tr>
</thead>
<tbody>
<tr>
<td>Peeling Characteristics</td>
<td>Peeling Force (on glass)</td>
<td>0.011 N/25mm</td>
<td>0.020 N/25mm</td>
<td>0.056 N/25mm</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Optical Characteristics</td>
<td>Color Tone</td>
<td>Transparent</td>
<td>Transparent</td>
<td>Transparent</td>
<td>Transparent</td>
<td>Transparent</td>
</tr>
<tr>
<td></td>
<td>Haze</td>
<td>3.00%</td>
<td>1.20%</td>
<td>3.00%</td>
<td>1.70%</td>
<td>1.70%</td>
</tr>
<tr>
<td></td>
<td>Total Light Transmittance</td>
<td>91.30%</td>
<td>92.70%</td>
<td>91.40%</td>
<td>92.20%</td>
<td>92.20%</td>
</tr>
<tr>
<td>Antistatic Characteristics</td>
<td>Antistatic Characteristics</td>
<td>10^{19}</td>
<td>10^{19}</td>
<td>10^{19}</td>
<td>10^{19}</td>
<td>10^{18}</td>
</tr>
<tr>
<td>Environmental Characteristics</td>
<td>Environmental Test Conditions</td>
<td>0℃~40℃ × 85%RH</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Storage Test Conditions</td>
<td>-20℃ × 96h, 80℃ × 96h, 50℃ × 85%RH × 96h</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*A 25mm wide film affixed to the target and was peeled at 180 degrees to measure the peeling force stress when peeled. The peeling speed was 1200mm /min.

*HG1, HG2, HG3 is the characteristic value of the substrate type of 50µm.*
During the manufacturing process of displays and touch panels.

To prevent contamination and scratching.

For the transportation of parts or semi-finished products.

Application to a smooth surface ensures stable fixing and holding. As no adhesive is used for affixing the film, no damage will be caused to parts or semi-finished products.

For fixing the manufacturing process.

Enables components to be firmly fixed and can be easily peeled off once the manufacturing process is complete.
**Single-Side Adsorbent Type**

Standard grade adsorbent type FIXFILM:
This is composed of a single-side adsorbent layer on a polyester film and makes a wide range of applications possible from carrier film to the protection of surfaces and the fixing of components and other objects in place.
The feature of high transparency fits to protection for optical products.

**Structure**

**Features**

<table>
<thead>
<tr>
<th>FIXFILM</th>
<th>Substrate Thickness (µm)</th>
<th>Peeling Type</th>
<th>Substrate</th>
<th>Antistatic Performance</th>
<th>Features</th>
</tr>
</thead>
<tbody>
<tr>
<td>STD1</td>
<td>25</td>
<td>Low Peeling Resistance</td>
<td>Transparent PET</td>
<td>—</td>
<td>Low Peeling Resistance (Standard Grade)</td>
</tr>
<tr>
<td>HG1</td>
<td>50,100</td>
<td>High Peeling Resistance</td>
<td>Highly Transparent PET</td>
<td>Available</td>
<td>Low Peeling Resistance (High Grade)</td>
</tr>
<tr>
<td>STD2</td>
<td>25</td>
<td>Medium Peeling Resistance</td>
<td>Transparent PET</td>
<td>—</td>
<td>Medium Peeling Resistance (Standard Grade)</td>
</tr>
<tr>
<td>HG2</td>
<td>50,100</td>
<td>Medium Peeling Resistance</td>
<td>Highly Transparent PET</td>
<td>Available</td>
<td>Medium Peeling Resistance (High Grade)</td>
</tr>
<tr>
<td>HG2-50E</td>
<td>50</td>
<td>High Peeling Resistance</td>
<td>Highly Transparent PET</td>
<td>Available</td>
<td>HG2 (Excellent Grade)</td>
</tr>
<tr>
<td>HG3</td>
<td>50</td>
<td>High Peeling Resistance</td>
<td>Highly Transparent PET</td>
<td>Available</td>
<td>High Peeling Resistance (High Grade)</td>
</tr>
</tbody>
</table>
Double-Side Adsorbent Type

An adsorbent layer is installed on both sides of a polyester film which can be used for temporarily fixing in place various parts or components.

Structure

![Diagram of Double-Side Adsorbent Type]

Features

<table>
<thead>
<tr>
<th>Fixture</th>
<th>Substrate Thickness (µm)</th>
<th>Peeling Type</th>
<th>Substrate</th>
<th>Antistatic Performance</th>
<th>Features</th>
</tr>
</thead>
<tbody>
<tr>
<td>HGW2</td>
<td>50</td>
<td>Medium peeling Resistance</td>
<td>Highly Transparent PET</td>
<td>Available</td>
<td>HG2 Double-Side Adsorbent Type</td>
</tr>
</tbody>
</table>

*This product is made to order.

Adsorbent / Adhesive Type

This type features an adsorbent layer on one side and an adhesive layer on the other.

The adhesive layer allows permanent adhesion whilst the adsorbent layer offers a temporary adhesion option.

Structure

![Diagram of Adsorbent / Adhesive Type]

Features

<table>
<thead>
<tr>
<th>Fixture</th>
<th>Substrate Thickness (µm)</th>
<th>Peeling Type (Adsorbent Layer)</th>
<th>Substrate</th>
<th>Antistatic Performance</th>
<th>Features</th>
</tr>
</thead>
<tbody>
<tr>
<td>HGA2</td>
<td>50</td>
<td>Medium Peeling Resistance</td>
<td>Highly Transparent PET</td>
<td>Available</td>
<td>HG2 Adsorbent/Adhesive Type</td>
</tr>
</tbody>
</table>

*This product is made to order.*
Precautions for “FIXFILM” usage

- “FIXFILM” delivers reliable adsorbent performance with flat and smooth surfaces. “FIXFILM” may not be able to perform to its full functional potential if the target surface is rough or curved, etc. Please test and clean the surface before use.
- The substrate of “FIXFILM” is polyester. If bent, the original form may not be restored and the adsorbent force may deteriorate. Please use with care.
- Used under the following conditions the adsorbent force may become weaker or part of the layer may remain on the target surface.
  - Affixing the film to specially treated surfaces, such as certain types of glass or other surfaces which already have other film attached.
  - Affixing the film for a lengthy period of time in the same position, particularly if it is left in areas of high temperatures or high humidity or where it is exposed to direct sunlight.
  - Affixing with water.
  - Affixing to the target surface with residual solvent remaining.
- Avoid storage in direct sunlight or areas of high temperature or humidity to prevent potential loss or deterioration of functionality.
- The product features work as described in this catalog; however, performance may vary depending on environment and consumer usage.
  Any goods shown to be faulty will be replaced.
  FUJICOPIAN CO., LTD. will not compensate for any damages arising from usage other than the value of the FUJICOPIAN CO., LTD. product.
  Please check up carefully before use.
- The numerical values and information in the catalog indicate our test results for reference. They are not assurances of individual product performance.
- Due to product improvement, specifications and appearance may change without notice.
- Please read the precautions for “FIXFILM” product usage before use.

Contact Information
FUJICOPIAN CO., LTD., Sales Department

TEL 81-(0)3-3642-0333 (Tokyo)
     81-(0)6-6471-7029 (Osaka)

E-mail information@fujicopian.co.jp

Head Office
4-14, Mitejima 5-chome, Nishiyodogawa-ku, Osaka 555-0012 Japan
TEL: 81-(0)6-6471-7029 FAX: 81-(0)6-6474-7045

Tokyo Branch Office
Kamei Bldg., 17-13, Kiba 2-chome, Koto-ku, Tokyo 135-8525 Japan
TEL: 81-(0)3-3642-0333 FAX: 81-(0)3-3642-0588

Official Site http://www.fujicopian.com/