Do not use these tapes in medical or other applications in ways that they make contact with the human body.

Dispose of these tapes in accordance with relevant laws. Never incinerate.

Do not use these tapes under temperature conditions that exceed the maximum service temperature.

Please read the catalog, Material Safety Data Sheet (SDS), and fluororesin handling instructions to maintain the product’s designed performance and to use the product safely.
CHUKOH FLO™ Adhesive Tape is the tradename of Chukoh Chemical Industries for a wide range of High Performance Pressure Sensitive Tape products. The non-stick, low-friction surface combined with high heat resistance, strong electrical insulation properties and the ability to resist most chemicals permits their use in lining, electrical insulation, heat sealing and chemical environment applications.

The five distinctive characteristics meet all needs.

- **Non-stick**
  Fluoroplastic materials have unique non-stick surface characteristics that allow easy release.

- **Lowest friction**
  The tapes made of fluoroplastic materials have the lowest dynamic friction coefficient among all solid materials.

- **Continuous use at high temperature**
  Fluoroplastic materials have high heat resistance and low temperature resistance.

- **Electrical insulation**
  Fluoroplastic materials have high electrical insulation properties.

- **Excellent chemical resistance**
  The stable molecular structure of fluoroplastic materials is not affected by most of the commonly used chemicals and solvents. This property refers to the tape surface.
ASF-110 FR

This tape consists of silicone adhesive applied to a base material made of fluoroplastic (PTFE) film. This tape features many of the characteristics of fluoroplastics and offers excellent flexibility and surface smoothness. It comes in a clean white color, the original color of PTFE, and offers excellent flexibility and surface smoothness.

Main applications:
- Insulating spacers, and insulation covering for wire connections.
- For cable bundling, etc.
- Enhance slippage in chutes and hoppers.
- Covering for pressure-bonded heat seals.
- Anti-chemical masking.
- Prevent wear of sliding parts.
- Prevent scratches and enhance slippage on bottle and can conveyors.

Less prone to peeling even under high-temperature conditions.

Typical properties:
- Total thickness: 0.18 mm (7.1 mil)
- Standard width: 76 mm (3 in)
- Maximum width: 350 mm (13 in)
- Length: 100 m (110 yd)

Values shown in this table represent measurements and do not constitute guaranteed values.

* Tapes can be slit to widths not shown above up to the maximum width.

Surface embossing improves slippering characteristics and clean release.

This tape consists of silicone adhesive applied to a base material made of fluoroplastic (PTFE) film with an embossed surface. This tape provides 30% better slippering characteristics than ASF-110FR and enables better clean release.

Main applications:
- Enhance slippage and prevent scratches to transported objects.
- Prevent sticky substances such as unvulcanized rubber from sticking.

Antistatic type.

This tape consists of silicone adhesive applied to a base material made of fluoroplastic (PTFE) film containing conductive carbon. It provides the characteristics of fluoroplastics with additional antistatic properties.

Main applications:
- Clean release in heat sealers, fusion cutters, and vacuum packagers.
- Improve sticking in areas where static build up must be minimized such as film transport rolls.
- Mask over complex shapes.

Fluoroplastic (PTFE) Film Adhesive Tapes
**ASF-115 (MX)**

**Provide both tensile strength and smoothness.**

This tape consists of silicone adhesive applied to a base material made of fluoroplastic (PTFE) film with excellent strength and low stretch.

### Structure
- High-strength, transparent (PTFE) film
- Silicone adhesive

### Typical properties

<table>
<thead>
<tr>
<th>Product code</th>
<th>Total thickness mm (mil)</th>
<th>Standard width mm (in)</th>
<th>Maximum width mm (in)</th>
<th>Length m (yd)</th>
</tr>
</thead>
<tbody>
<tr>
<td>ASF-115 (MX)</td>
<td>0.15 (6.0)</td>
<td>38, 50 (1.5, 2)</td>
<td>250</td>
<td>33 (110)</td>
</tr>
</tbody>
</table>

* Tapes can be slit to widths not shown above up to the maximum width.

**Main applications**
- Roll masking and belt for protecting and preventing material from sticking to polyethylene laminator rolls.
- Other applications that require low stretchability.

**ASF-116T FR**

**Super-thin tape is optimal for bundling and marking applications.**

This tape consists of silicone adhesive applied to a base material made of super-thin reinforced fluoroplastic (PTFE) film. The adhesive has been dyed green for easier identification.

### Structure
- Super-thin fluoroplastic (PFA) film
- Silicone adhesive

### Typical properties

<table>
<thead>
<tr>
<th>Product code</th>
<th>Total thickness mm (mil)</th>
<th>Standard width mm (in)</th>
<th>Maximum width mm (in)</th>
<th>Length m (yd)</th>
</tr>
</thead>
<tbody>
<tr>
<td>ASF-116T FR</td>
<td>0.04 (1.6)</td>
<td>5, 10, 20 (0.2, 0.4, 0.8)</td>
<td>40 (1.6)</td>
<td>5 (26)</td>
</tr>
</tbody>
</table>

* Tapes can be slit to widths not shown above up to the maximum width.

**Main applications**
- Heat sealer.
- Wire and cable bundling.
- Insulating spacers, and insulation covering.

**ASF-118A FR**

**Better tensile strength than ASF-115 (MX).**

This tape consists of green-dyed silicone adhesive applied to a base material made of fluoroplastic (PTFE) film with excellent strength and low stretch. This tape delivers even better tensile strength than that of ASF-115 (MX).

### Structure
- Super-strength, transparent (PTFE) film
- Silicone adhesive

### Typical properties

<table>
<thead>
<tr>
<th>Product code</th>
<th>Total thickness mm (mil)</th>
<th>Standard width mm (in)</th>
<th>Maximum width mm (in)</th>
<th>Length m (yd)</th>
</tr>
</thead>
<tbody>
<tr>
<td>ASF-118A FR</td>
<td>0.1 (4.0)</td>
<td>90, 100 (3.6, 4)</td>
<td>200</td>
<td>33 (110)</td>
</tr>
</tbody>
</table>

* Tapes can be slit to widths not shown above up to the maximum width.

**Main applications**
- Roll masking and belt for protecting and preventing material from sticking to polyethylene laminator rolls.
- Other applications that require low stretchability.

**AFA-113A**

**Transparent PFA film adhesive tape.**

This tape consists of silicone adhesive applied to a base material made of fluoroplastic (PFA) film, and offers excellent transparency in addition to the many characteristics of fluoroplastics.

### Structure
- Fluoroplastic(PFA) adhesive
- Clear PFA release liner

### Typical properties

<table>
<thead>
<tr>
<th>Product code</th>
<th>Total thickness mm (mil)</th>
<th>Standard width mm (in)</th>
<th>Maximum width mm (in)</th>
<th>Length m (yd)</th>
</tr>
</thead>
<tbody>
<tr>
<td>AFA-113A</td>
<td>0.10 (4.0)</td>
<td>50 (2)</td>
<td>200</td>
<td>40 (140)</td>
</tr>
</tbody>
</table>

* Tapes can be slit to widths not shown above up to the maximum width.

**Main applications**
- Protection of label where visibility is required.
- Insulation applications of electrical equipment.
AGF-100 FR

This tape consists of silicone adhesive applied to a base material made of fluoroplastic (PTFE)-impregnated glass cloth. As such, this tape offers the many characteristics of fluoroplastics while delivering excellent dimensional stability. The surface of the tape has embossments that derive from fluoroplastics while delivering excellent dimensional stability.

**Main applications**
- Clean release in heat sealers, and vacuum packagers.
- Clean release in press processes such as resin molding.
- Electrical insulation covering
- Covering for other areas that require non-adhesiveness and slipping.

**Typical dimension**

<table>
<thead>
<tr>
<th>Product code</th>
<th>Total thickness mm (mil)</th>
<th>10, 15, 18, 20, 25, 30, 50, 100</th>
<th>1000</th>
<th>Maximum width mm (in)</th>
<th>Length m (yd)</th>
</tr>
</thead>
<tbody>
<tr>
<td>AGF-100 FR</td>
<td>0.13 (5.1)</td>
<td>0.18 (7.1)</td>
<td></td>
<td>540 (21.3)</td>
<td>600 (200)</td>
</tr>
<tr>
<td></td>
<td>0.16 (6.3)</td>
<td>0.20 (7.9)</td>
<td></td>
<td>450 (17.8)</td>
<td>420 (160)</td>
</tr>
</tbody>
</table>

*Values shown in this table represent measurements and do not constitute guaranteed values.

**Main applications**
- Dry roll lining on non-woven fabrics and paper.
- Lining on sliding surfaces of chutes and hoppers.
- Applications where wide tapes are desired.

AGF-400-500

This tape consists of silicone adhesive applied to a base material made of fluoroplastic (PTFE)-impregnated glass cloth. It comes with a separator and supports widths up to 1000mm. Users can peel it little by little to work with it. It is suited for large rolls and wide lining treatments.

**Main applications**
- Dry roll lining on non-woven fabrics and paper.
- Lining on sliding surfaces of chutes and hoppers.
- Applications where wide tapes are desired.

**Typical dimension**

<table>
<thead>
<tr>
<th>Product code</th>
<th>Total thickness mm (mil)</th>
<th>10, 15, 18, 20, 25, 30, 50, 100</th>
<th>1000</th>
<th>Maximum width mm (in)</th>
<th>Length m (yd)</th>
</tr>
</thead>
<tbody>
<tr>
<td>AGF-400-500</td>
<td>0.13 (5.1)</td>
<td>0.18 (7.1)</td>
<td></td>
<td>540 (21.3)</td>
<td>600 (200)</td>
</tr>
<tr>
<td></td>
<td>0.16 (6.3)</td>
<td>0.20 (7.9)</td>
<td></td>
<td>450 (17.8)</td>
<td>420 (160)</td>
</tr>
</tbody>
</table>

*Values shown in this table represent measurements and do not constitute guaranteed values.

**Main applications**
- Clean release in heat sealers, fusion cutters, and vacuum packagers.
- Improve sliding in areas where static build up must be minimized such as on film transport rolls, electronic components, and device manufacturing processes.

AGB-100

This tape consists of silicone adhesive applied to a base material made of fluoroplastic (PTFE)-impregnated glass cloth along with antistatic performance. Also available with wide separator (AGB-500 series)

**Main applications**
- Clean release in heat sealers, and vacuum packagers.
- Clean release in press processes such as resin molding.
- Electrical insulation covering
- Covering for other areas that require non-adhesiveness and slipping.

**Typical dimension**

<table>
<thead>
<tr>
<th>Product code</th>
<th>Total thickness mm (mil)</th>
<th>10, 15, 18, 20, 25, 30, 50, 100</th>
<th>1000</th>
<th>Maximum width mm (in)</th>
<th>Length m (yd)</th>
</tr>
</thead>
<tbody>
<tr>
<td>AGB-100</td>
<td>0.13 (5.1)</td>
<td>0.18 (7.1)</td>
<td></td>
<td>540 (21.3)</td>
<td>600 (200)</td>
</tr>
<tr>
<td></td>
<td>0.16 (6.3)</td>
<td>0.20 (7.9)</td>
<td></td>
<td>450 (17.8)</td>
<td>420 (160)</td>
</tr>
</tbody>
</table>

*Values shown in this table represent measurements and do not constitute guaranteed values.

**Main applications**
- Clean release in heat sealers, fusion cutters, and vacuum packagers.
- Improve sliding in areas where static build up must be minimized such as on film transport rolls, electronic components, and device manufacturing processes.

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Fluoroplastic (PTFE) Glass Cloth Adhesive Tapes

Fluoroplastic (PTFE) Glass Cloth Adhesive Tapes

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Fluoroplastic (PTFE) Glass Cloth Adhesive Tapes
AGF-101

Deep embossing on the surface of the glass cloth give it better clean release characteristics, slipping characteristics, and wear resistance. It provides about twice the die detachment characteristics of AGF-100FR and a 20% improvement in slipping characteristics. It offers better wear resistance as well and its service life as a heat seal greater than 4 times longer than that of AGF-100FR.

This product consists of acrylic adhesive applied to an impregnated glass cloth. The glass cloth texture is the same as that of AGF-100FR, this product has improved clean release characteristics significantly improved over AGF-100 FR.

AGF-102

Zone Tapes.

This is a fluoroplastic adhesive tape that is essentially the same as AGF-150FR except that its center area has been left adhesive-free. Because no adhesive (green) makes contact with the heater, it helps to maintain the heater clean and extend the service life of the heater and the tape.

AGF-103T

Product with improved clean release characteristics.

This tape consists of silicone adhesive applied to a base material made of fluoroplastic impregnated glass cloth. Although the cloth texture is the same as that of AGF-100FR, this product has improved clean release characteristics significantly improved over AGF-100 FR.

AGB-207-6-1

Air-permeable sheets. Optimum cushioning material for use in suction processes for parts.

This product consists of acrylic adhesive applied to an impregnated fluoroplastic (PTFE). Its air-permeability makes it the optimum cushioning material for use in suction processes.

ACH-6000

Optimum adhesive tape for stopping slippage and preventing soiling.

This adhesive tape is made of a base material with embossed silicone features on its surface to give it excellent clean release, grip, and cushioning performance. The silicone adhesive gives it excellent heat resistance and is less prone to leave any residual adhesives. The tape can also be applied to silicone rolls.

ACH-6100

Heat resistance adhesive tape is optimum for adding gripping properties.

This tape consists of silicone adhesive applied to a base material made of silicone-coated glass cloth. It offers excellent gripping performance and heat resistance, and can be used under high-temperature conditions.

Main applications

- Roll masking during adhesive or glue treatments.
- Add traction power to feeder rollers for films and unwoven fabrics, etc.
- Temporary holding during product transport.

Main applications

- Roll masking during adhesive or glue treatments.
- Add traction power to feeder rollers for films and unwoven fabrics, etc.
- Temporary holding during product transport.
**API-114A FR**

Excellent heat resistance and insulation.

This tape consists of silicone adhesive applied to a polyimide film, and is suited for applications where heat resistance and electrical insulation is required.

- **Main applications**
  - Slip prevention under high-temperature conditions.
  - Supplementary sliding surfaces on skis and snowboards.
  - Hoppers for sand, sugar, grain, and other hard materials.
  - Improve slipping at corner areas of transport rails for bottles and cargo.
  - Lining for conveyor guides.
  - Supplementary sliding surfaces on skis and snowboards.

**API-114C**

Non-silicon polyimide adhesive tape with excellent heat resistance

This tape consists of acrylic adhesive with high heat resistance applied to a base material made of polyimide film. With excellent heat resistance and dimensional stability, this product can be used for a place where silicone is not suitable.

- **Main applications**
  - Electrical insulation at high temperatures
  - Heat resistant masking for soldering and other processes.

- **Typical properties**
  - Adhesion/90° Peel test 7 (25) lbs/in
  - Tensile strength 125 (28) lbs/in
  - Elongation 25, 50 (1, 2) %

**API-214A**

This double-sided tape is optimum for use in high-temperature conditions.

This tape consists of silicone adhesive applied to both sides of a base material made of polyimide film. Both base material and adhesive provide excellent heat resistance, making this tape an optimum choice for temporarily holding items under high-temperature conditions.

- **Main applications**
  - Temporary holding under high-temperature conditions.
  - Temporary holding during solder reflow.
  - Slip prevention under high-temperature conditions.

**API-214AE**

Double-sided tape with strong adhesive side/light adhesive side for temporary holding.

This tape consists of silicone adhesive with excellent heat resistance applied to both sides of a base material made of polyimide film. As the one side has a light adhesive, this tape is optimum for holding items temporarily under high-temperature conditions.

- **Typical properties**
  - Elongation 25, 50 (1, 2) %

---

**ACH-5201A**

Polyester Adhesive Tape Optimized for Splicing

This tape consists of silicone adhesive applied to a base material made of black polyimide film. This tape provides excellent heat resistance, insulation, and chemical resistance, and is therefore suited for a variety of masking applications. It also provides excellent adhesion on silicone-coated products so it can be used as a joint for the backing paper.

**ACH-5001 FR**

Glass Cloth Adhesive Tape with Excellent Mechanical Strength.

This tape consists of silicone adhesive applied to a base material made of high-strength glass cloth. It provides excellent flexibility and heat resistance making it a useful choice for insulation and bundling under high-temperature conditions.

**AUE-112B**

UHMW adhesive tape with excellent wear resistance and slipping characteristics.

This tape consists of acrylic adhesive applied to a base material made of ultrahigh molecular weight (UHMW) polyethylene film. It provides excellent wear resistance and slipping characteristics that are second only to fluoron.
## Explanation of grades and typical properties

<table>
<thead>
<tr>
<th>Product code</th>
<th>Base material</th>
<th>Adhesive</th>
<th>Total thickness (mm)</th>
<th>Tensile strength (kgf/cm²) (45°)</th>
<th>Elongation (%)</th>
<th>Adhesion/180° peel test (kgf/lin)</th>
<th>Breakdown voltage (kV/mm)</th>
<th>Maximum service temperature (°C)</th>
<th>Release liner years</th>
</tr>
</thead>
<tbody>
<tr>
<td>AUF-110A</td>
<td>PTFE film</td>
<td>Silicone pressure-sensitive adhesive</td>
<td>0.08 (0.2)</td>
<td>70 (10)</td>
<td>180</td>
<td>7 (0.2)</td>
<td>10</td>
<td>320 (390)</td>
<td>Yes</td>
</tr>
<tr>
<td>AUF-121A</td>
<td>PTFE film</td>
<td>Silicone pressure-sensitive adhesive</td>
<td>0.13 (0.3)</td>
<td>190 (28)</td>
<td>15</td>
<td>8</td>
<td>9</td>
<td>20</td>
<td>230 (290)</td>
</tr>
<tr>
<td>AUF-190A</td>
<td>Embossed PTFE film</td>
<td>Acrylic adhesive</td>
<td>0.08 (0.2)</td>
<td>90 (13)</td>
<td>150</td>
<td>5 (2.1)</td>
<td>10</td>
<td>230 (290)</td>
<td>Yes</td>
</tr>
<tr>
<td>AUF-130A</td>
<td>PTFE film</td>
<td>Silicone pressure-sensitive adhesive</td>
<td>0.13 (0.3)</td>
<td>190 (28)</td>
<td>10</td>
<td>6</td>
<td>12</td>
<td>230 (290)</td>
<td>No</td>
</tr>
<tr>
<td>AUF-200A</td>
<td>PTFE film</td>
<td>Silicone pressure-sensitive adhesive</td>
<td>0.13 (0.3)</td>
<td>190 (28)</td>
<td>15</td>
<td>6 (2.1)</td>
<td>10</td>
<td>230 (290)</td>
<td>Yes</td>
</tr>
<tr>
<td>AUF-110B</td>
<td>PTFE film</td>
<td>Silicone pressure-sensitive adhesive</td>
<td>0.08 (0.2)</td>
<td>70 (10)</td>
<td>150</td>
<td>5 (2.1)</td>
<td>10</td>
<td>230 (290)</td>
<td>Yes</td>
</tr>
<tr>
<td>AUF-110F</td>
<td>PTFE film</td>
<td>Silicone pressure-sensitive adhesive</td>
<td>0.13 (0.3)</td>
<td>190 (28)</td>
<td>10</td>
<td>6</td>
<td>12</td>
<td>230 (290)</td>
<td>No</td>
</tr>
<tr>
<td>AUF-121B</td>
<td>PTFE film</td>
<td>Silicone pressure-sensitive adhesive</td>
<td>0.13 (0.3)</td>
<td>190 (28)</td>
<td>10</td>
<td>6</td>
<td>12</td>
<td>230 (290)</td>
<td>No</td>
</tr>
<tr>
<td>AUF-190B</td>
<td>Embossed PTFE film</td>
<td>Acrylic adhesive</td>
<td>0.08 (0.2)</td>
<td>90 (13)</td>
<td>150</td>
<td>5 (2.1)</td>
<td>10</td>
<td>230 (290)</td>
<td>Yes</td>
</tr>
<tr>
<td>AUF-130B</td>
<td>PTFE film</td>
<td>Silicone pressure-sensitive adhesive</td>
<td>0.13 (0.3)</td>
<td>190 (28)</td>
<td>10</td>
<td>6</td>
<td>12</td>
<td>230 (290)</td>
<td>No</td>
</tr>
<tr>
<td>AUF-200B</td>
<td>PTFE film</td>
<td>Silicone pressure-sensitive adhesive</td>
<td>0.13 (0.3)</td>
<td>190 (28)</td>
<td>10</td>
<td>6</td>
<td>12</td>
<td>230 (290)</td>
<td>No</td>
</tr>
</tbody>
</table>

### Adhesion (180° peel test)

- **Temperature**
  - AGF-100A: 230°C
  - AGF-100 FR: 250°C (480°F)

- **Adhesive area**
  - 25mm x 150mm (1” x 6”) (12mm/lin)

- **Measurement method**
  - 180° peel test (25mm in width)

- **Material**
  - SUS plate

- **Peel force**
  - 0.33 oz/in

- **Punch treated products**

- **Contact area**
  - 25 mm x 25 mm (1” x 1”)

- **Test speed**
  - 300 mm/min (12 inch/min)

- **Base plate**
  - SUS plate

- **Holding power**

- **Contact area**
  - 25 mm x 25 mm (1” x 1”)

- **Specimen thickness**
  - 0.13 mm (0.0051"

- **Contact area**
  - 25 mm x 25 mm (1” x 1”)

- **Adhesion/180° peel test**

- **Contact area**
  - 25 mm x 25 mm (1” x 1”)

- **Surface tension**
  - 0.08 oz/lin

- **Tape products can be customized and specially treated to meet your specific needs.

*The adhesive force for ACH-5001FR was measured by peeling it at 90° (N/25mm).

**Values shown in this table represent measurements and do not constitute guaranteed values.**