



Hi-quality & Performance  
**CHUKOH FLO®**  
**PRESSURE SENSITIVE**  
**ADHESIVE TAPES**



# Hi-quality & Performance



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## Reliability and Experience CHUKOH FLO<sup>®</sup> Adhesive Tape.

CHUKOH FLO<sup>®</sup> 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.



**Non-stick**

● **Non-stick properties provide easy release**

Fluoroplastic materials have a unique non-stick surface characteristic that allows easy release.

**Lowest friction**

● **Highest slippage**

The tape made of fluoroplastic having the lowest dynamic friction coefficient among all solid materials shows the least slip resistance.

**Heat resistance**

● **Continuous use at high temperature**

Fluoroplastic have high heat resistance and low temperature resistance.

**Insulation**

● **Electrical insulation**

Fluoroplastic having high electrical insulation properties.

**Chemical resistance**

● **Excellent chemical resistance**

The stable molecular structure of the fluoroplastic material is not affected by most of the commonly used chemicals and solvents. This property refers to the tape surface.

# Product Features

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**The five distinctive characteristics meet all needs.**

# ASF-110 FR

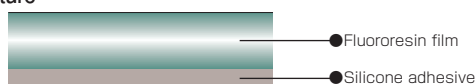
## Soft white fluororesin adhesive tape.

Conformable to UL 510  
(File No.E105318)



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

### Structure



### General dimension

Product No.	Total thickness mm(mil)	Width : mm (in)		Length m(yd)
		Standard product	Maximum width	
ASF-110 FR	0.08 (3.2)	13, 19, 25, 38, 50, 100, 150, 200, 250, 300 ( <sup>1</sup> / <sub>2</sub> , <sup>3</sup> / <sub>4</sub> , 1, 1 <sup>1</sup> / <sub>2</sub> , 2, 4, 6, 8, 10, 12)	350 (13)	10 (11)
	0.13 (5.1)		420 (16 <sup>1</sup> / <sub>2</sub> )	
	0.18 (7.1)			
	0.23 (9.1)			

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

### General characteristics

Product No.	Total thickness mm(mil)	Tensile strength N/25mm (lbs/in)	Elongation (%)	Adhesion/180° peel test N/25mm(oz/in)	Breakdown voltage/ substrate only (kV)	Maximum service temperature °C (°F)
ASF-110 FR	0.08 (3.2)	70 (16)	180	7 (25)	10	200 (390)
	0.13 (5.1)	160 (36)		8 (29)	15	
	0.18 (7.1)	250 (56)		9 (32)	18	
	0.23 (9.1)	340 (76)		10 (36)	21	

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

### Primary 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 conveyor lines.

# ASF-121 FR

## Less prone to peeling even under high-temperature conditions.

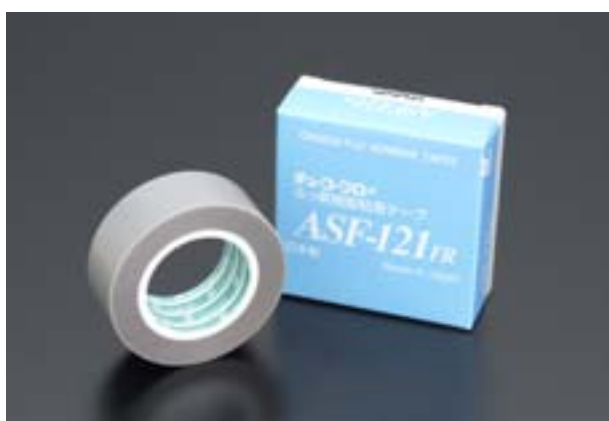
Conformable to UL 510  
(File No.E105318)



This tape consists of silicone adhesive applied to a base material made of fluororesin (PTFE) film. It has a gray color as it is made using a different surface treatment from ASF-110FR.

This tape is less prone to peeling under high-temperature conditions thanks to its low level of heat-induced shrinkage.

### Structure



### General dimension

Product No.	Total thickness mm(mil)	Width : mm (in)		Length m(yd)
		Standard product	Maximum width	
ASF-121 FR	0.08 (3.2)	13, 19, 25, 30, 38, 50 ( <sup>1</sup> / <sub>2</sub> , <sup>3</sup> / <sub>4</sub> , 1, <sup>6</sup> / <sub>5</sub> , 1 <sup>1</sup> / <sub>2</sub> , 2)	400 (16)	10 (11)
	0.13 (5.1)		420 (16 <sup>1</sup> / <sub>2</sub> )	
	0.18 (7.1)			
	0.23 (9.1)			

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

### General characteristics

Product No.	Total thickness mm(mil)	Tensile strength N/25mm (lbs/in)	Elongation (%)	Adhesion/180° peel test N/25mm(oz/in)	Breakdown voltage/ substrate only (kV)	Maximum service temperature °C (°F)
ASF-121 FR	0.08 (3.2)	90 (20)	150	7 (25)	9	200 (390)
	0.13 (5.1)	160 (36)	220	9 (32)	13	
	0.18 (7.1)	250 (56)		10 (36)	16	
	0.23 (9.1)	300 (67)		10 (36)	18	

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

### Primary applications

- Clean release in heat sealers, fusion cutters, and vacuum packagers.
- High-temperature electrical insulation covering.
- Masking and slippage enhancement in hot chemical atmospheres.

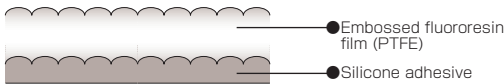
# ASF-119T

## Surface embossing improves slipping characteristics and Clean release.

This tape consists of silicone adhesive applied to a base material made of fluororesin (PTFE) film with an embossed surface.

This tape provides 30% better slipping characteristics than ASF-110FR and enables better Clean release.

### Structure



### General dimension

Product No.	Total thickness mm(mil)	Width : mm (in)		Length m(yd)
		Standard product	Maximum width	
ASF-119T	0.35 (13.7)	25, 50 (1, 2)	400 (16)	10 (11)

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

### General characteristics

Product No.	Total thickness mm(mil)	Tensile strength N/25mm (lbs/in)	Elongation (%)	Adhesion/180° peel test N/25mm (oz/in)	Breakdown voltage/substrate only (kV)	Maximum service temperature °C (°F)
ASF-119T	0.35 (13.7)	—	—	8 (29)	12	200 (390)

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

### Primary applications

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

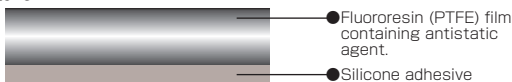
# ASB-110

## Antistatic type.

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

The tape also provides excellent stretching and conformability.

### Structure



### General dimension

Product No.	Total thickness mm(mil)	Width : mm (in)		Length m(yd)
		Standard product	Maximum width	
ASB-110	0.13 (5.1)	13, 25, 38, 50 (1/2, 1, 1 1/2, 2)	450 (18)	10 (11)

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

### General characteristics

Product No.	Total thickness mm(mil)	Tensile strength N/25mm (lbs/in)	Elongation (%)	Adhesion/180° peel test N/25mm (oz/in)	Surface resistivity (Ω)	Maximum service temperature °C (°F)
ASB-110	0.13 (5.1)	70 (16)	340	8 (29)	2.6 × 10 <sup>6</sup>	200 (390)

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

### Primary 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.
- Mask over complex shapes.

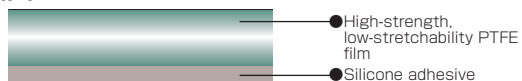


## ASF-115 (MX)

Provide both tensile strength and smoothness.

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

### Structure



### General dimension

Product No.	Total thickness mm(mil)	Width : mm (in)		Length m(yd)
		Standard product	Maximum width	
ASF-115 (MX)	0.1 (3.9)	38, 50 (1½, 2)	250 (10)	33 (36)

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

### General characteristics

Product No.	Total thickness mm(mil)	Tensile strength N/25mm (lbs/in)	Elongation (%)	Adhesion/180° peel test N/25mm(oz/in)	Breakdown voltage/ substrate only (kV)	Maximum service temperature °C (°F)
ASF-115 (MX)	0.1 (3.9)	135 (30)	40	7 (25)	11	200 (390)

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

### Primary applications

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

## ASF-118A FR

Better tensile strength than ASF-115 (MX).

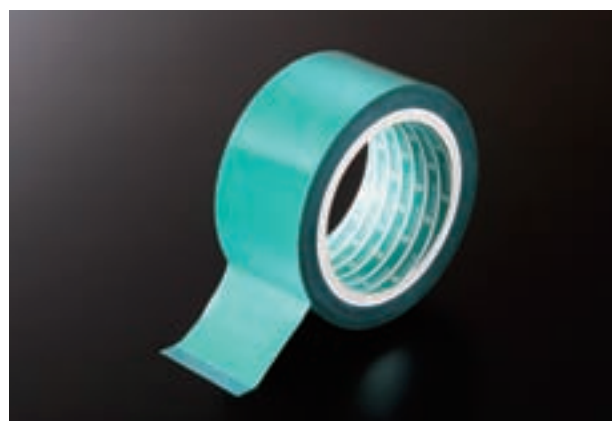
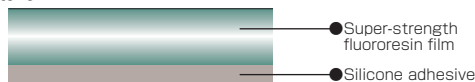
Conformable to UL 510  
(File No.E105318)



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

This tape delivers even better tensile strength than that of ASF-115 (MX).

### Structure



### General dimension

Product No.	Total thickness mm(mil)	Width : mm (in)		Length m(yd)
		Standard product	Maximum width	
ASF-118A FR	0.1 (3.9)	38, 50, 75 (1½, 2, 3)	100 (4)	33 (36)

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

### General characteristics

Product No.	Total thickness mm(mil)	Tensile strength N/25mm (lbs/in)	Elongation (%)	Adhesion/180° peel test N/25mm(oz/in)	Breakdown voltage/ substrate only (kV)	Maximum service temperature °C (°F)
ASF-118A FR	0.1 (3.9)	220 (49)	70	7 (25)	10	250 (480)

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

### Primary applications

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

# ASF-116T<sub>FR</sub>

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

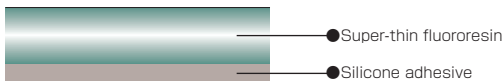
Conformable to UL 510  
(File No.E105318)



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

※Black tapes are also available upon request.

### Structure



### General dimension

Product No.	Total thickness mm(mil)	Width : mm (in)		Length m(yd)
		Standard product	Maximum width	
ASF-116T FR	0.04 (1.6)	5, 10, 20 (0.2, 0.4, 0.8)	40 (1½)	5 (5½)

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

### General characteristics

Product No.	Total thickness mm(mil)	Tensile strength N/25mm (lbs./in)	Elongation (%)	Adhesion/180° peel test N/25mm(oz/in)	Breakdown voltage/ substrate only (kV)	Maximum service temperature °C (°F)
ASF-116T FR	0.04 (1.6)	40 (9)	110	3 (11)	5	200 (390)

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

### Primary applications

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

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

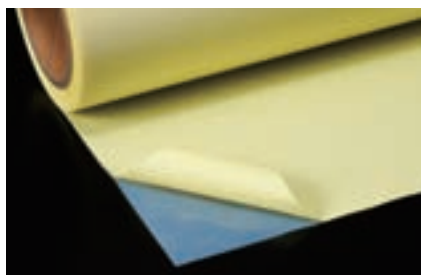
**Plastic Cores products**

**Products with release liner**

**Products with acrylic adhesive**

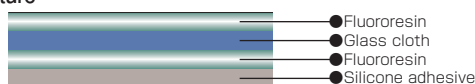
**Different core diameters  
(1.5 or 3 inch)**

**Punch treated products**



**AGF-100 FR****Standard product of heat sealing applications.**Conformable to UL 510  
(File No.E105318)

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

**Structure****General dimension**

Product No.	Total thickness mm(mil)	Width : mm (in)		Length m(yd)
		Standard product	Maximum width	
AGF-100 FR	0.13 (5.1)	13, 19, 25, 38, 50, 100, 150, 200, 250, 300 (½, ¾, 1, 1½, 2, 4, 6, 8, 10, 12)	560 (22)	10 (11)
	0.15 (5.9)		450 (18)	
	0.18 (7.1)			
	0.30 (11.9)			

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

**General characteristics**

Product No.	Total thickness mm(mil)	Tensile strength N/25mm (lbs/in)	Elongation (%)	Adhesion/180° peel test N/25mm (oz/in)	Breakdown voltage/ substrate only (kV)	Maximum service temperature °C (°F)
AGF-100 FR	0.13 (5.1)	360 (81)	—	9 (32)	6	200 (390)
	0.15 (5.9)	540 (121)		13 (46)	5	
	0.18 (7.1)	540 (121)		11 (39)	6	
	0.30 (11.9)	1220 (274)		14 (50)	6	

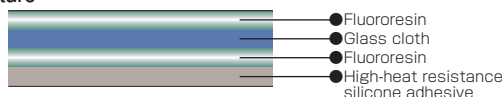
\*Values shown in this table represent measurements and do not constitute guaranteed values.

**Primary 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-adhesivity and slipping.

**AGF-100A****Product with heat resistance improved over AGF-100FR.**

Based on the AGF-100FR, the heat resistance of this product has been improved to up to 250°C+. It offers exceptionally good holding strength. (less displacement in the lateral direction)

**Structure****General dimension**

Product No.	Total thickness mm(mil)	Width : mm (in)		Length m(yd)
		Standard product	Maximum width	
AGF-100A	0.13 (5.1)	13, 19, 25, 30, 38, 50, 100 (½, ¾, 1, 1½, 2, 4)	560 (22)	10 (11)
	0.15 (5.9)		450 (18)	
	0.18 (7.1)			
	0.30 (11.9)			

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

**General characteristics**

Product No.	Total thickness mm(mil)	Tensile strength N/25mm (lbs/in)	Elongation (%)	Adhesion/180° peel test N/25mm (oz/in)	Breakdown voltage/ substrate only (kV)	Maximum service temperature °C (°F)
AGF-100A	0.13 (5.1)	360 (81)	—	10 (36)	6	250 (480)
	0.15 (5.9)	540 (121)		10 (36)	5	
	0.18 (7.1)	540 (121)		11 (39)	6	
	0.30 (11.9)	1220 (274)		12 (43)	6	

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

**Primary 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-adhesivity and slipping.



# AGF-400-500

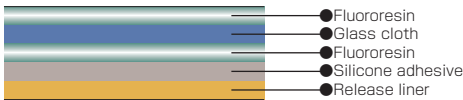
## Wide tape with release liner.

This tape consists of silicone adhesive applied to a base material made of fluororesin (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.

※Tapes can be cut and slit to suit your specific needs.

### Structure



### General dimension

Product No.	Total thickness mm(mil)	Width : mm (in)		Length m(yd)
		Standard product	Maximum width	
AGF-400-3	0.12 (4.7)	1000 (40)	1000 (40)	10 (11)
AGF-500-3	0.13 (5.1)			
AGF-500-4	0.15 (5.9)			
AGF-400-6	0.17 (6.7)			
AGF-500-6	0.18 (7.1)			
AGF-400-10	0.29 (11.5)			
AGF-500-10	0.30 (11.9)			

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

### General characteristics

Product No.	Total thickness mm(mil)	Tensile strength N/25mm (lbs/in)	Elongation (%)	Adhesion/180° peel test N/25mm(oz/in)	Breakdown voltage/ substrate only (kV)	Maximum service temperature °C (°F)
AGF-400-3	0.12 (4.7)	400 (90)	—	10 (36)	5	200 (390)
AGF-500-3	0.13 (5.1)	400 (90)		11 (39)		
AGF-500-4	0.15 (5.9)	600 (135)		12 (43)		
AGF-400-6	0.17 (6.7)	730 (164)		13 (46)		
AGF-500-6	0.18 (7.1)	730 (164)		13 (46)		
AGF-400-10	0.29 (11.5)	1200 (270)		14 (50)		
AGF-500-10	0.30 (11.9)	1200 (270)		14 (50)		

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

### Primary applications

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

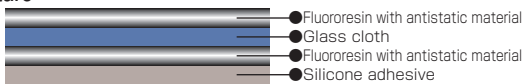
# AGB-100

## Antistatic type.

This tape consists of silicone adhesive applied to a base material made of fluororesin (PTFE)-impregnated glass cloth containing conductive carbon. It provides the heat resistance, slipping characteristics, non-stick, and chemical resistance of fluororesin along with antistatic performance.

Also available with wide separator. (AGB-500 series)

### Structure



### General dimension

Product No.	Total thickness mm(mil)	Width : mm (in)		Length m(yd)
		Standard product	Maximum width	
AGB-100	0.13 (5.1)	13, 25, 50 (1/2, 1, 2)	450 (18)	10 (11)
	0.18 (7.1)			
AGB-500-3	0.13 (5.1)	1000 (40)	1000 (40)	
AGB-500-6	0.18 (7.1)			

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

### General characteristics

Product No.	Total thickness mm(mil)	Tensile strength N/25mm (lbs/in)	Elongation (%)	Adhesion/180° peel test N/25mm(oz/in)	Surface resistivity (Ω)	Maximum service temperature °C (°F)
AGB-100	0.13 (5.1)	400 (90)	—	11 (39)	Less than 10 <sup>8</sup>	200 (390)
	0.18 (7.1)	730 (164)		13 (46)		
AGB-500-3	0.13 (5.1)	400 (90)		11 (39)		
AGB-500-6	0.18 (7.1)	730 (164)		13 (46)		

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

### Primary 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.

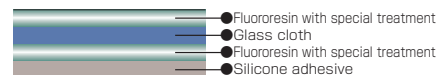
## AGF-101

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 is more than 4 times longer than that of AGF-100FR. (compared to Chukoh Chemical Industries products)



### Structure



### General dimensions

Product no.	Total thickness : mm(mil)	Standard product width : mm (in)	Maximum width : mm (in)	Length : m (yd)
AGF-101	0.24 (9.4)	25, 30, 50 (1, 1 1/2, 2)	450 (18)	10 (11)

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

### General characteristics

Product no.	Total thickness mm (mil)	Tensile strength N/25mm (lbs/in)	Elongation (%)	Adhesion/180° peel test N/25mm (oz/in)	Breakdown voltage/substrate only (kV)	Maximum service temperature °C (°F)
AGF-101	0.24 (9.4)	1000 (225)	—	13 (46)	8	200 (390)

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

### Primary applications

● Clean release for bags such as zipped, standard, and standing pouches. ● Pressing plate detachment for cotton, unwoven fabrics, and other materials. ● Applications where slipping properties, detaching properties, and wear resistance are required, and are not supported by the AGF series.

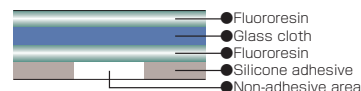
## AGF-102

### Zone Tapes.

This is a fluororesin adhesive tape that is essentially the same as AGF-100FR 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.



### Structure



### General dimensions

Product no.	Total thickness : mm(mil)	Standard product width : mm (in)	Zone-area : mm (in)	Length : m (yd)
AGF-102	0.13 (5.1)	38 (1 1/2), 50 (2) / Non-adhesive area : 20 (0.9)	20 (0.8)	10 (11)

### General characteristics

Product no.	Total thickness mm (mil)	Tensile strength N/25mm (lbs/in)	Elongation (%)	Adhesion/180° peel test N/25mm (oz/in)	Breakdown voltage/substrate only (kV)	Maximum service temperature °C (°F)
AGF-102	0.13 (5.1)	380 (15)	—	9 (0.4)	—	200 (390)

※Values shown in this table represent measurements and do not constitute guaranteed values. ※The adhesive force represents that of the areas with adhesive. ※The maximum service temperature of the base material is 260°C. ※The total thickness is the total thickness of the area where adhesive is applied.

### Primary applications

● Clean release for heat sealers. ● pressing plate release for cotton, unwoven fabrics, and other materials. ● Covering for heating elements.

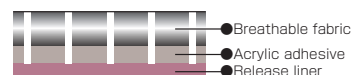
## AGB-207-6-1

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

This product consists of acrylic adhesive applied to air-permeable glass cloth that has been impregnated with fluororesin (PTFE). Its air-permeability makes it the optimum cushioning material for use in suction processes.



### Structure



### General dimensions

Product no.	Total thickness : mm(mil)	Standard product width : mm (in)	Maximum width : mm (in)	Length : m (yd)
AGB-207-6-1	0.11 (4.3)	480 (19)	480 (19)	1 (1.1)

### General characteristics

Product no.	Total thickness mm (mil)	Tensile strength N/25mm (lbs/in)	Elongation (%)	Adhesion/180° peel test N/25mm (oz/in)	Breakdown voltage/substrate only (kV)	Maximum service temperature °C (°F)
AGB-207-6-1	0.11 (4.3)	450 (101)	—	1.8 (6.4)	—	80 (176)

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

### Primary applications

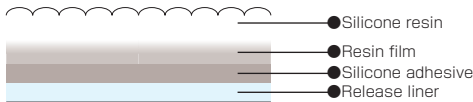
● Cushioning material for use in suction-holding of plate format products in the manufacturing of electronic components and devices.

# ACH-6000

## Optimum adhesive tape for stopping slippage and preventing soilage.

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 adhesive. The tape can also be applied to silicone rolls.

### Structure



### General dimension

Product No.	Total thickness mm(mil)	Width : mm (in)		Length m(yd)
		Standard product	Maximum width	
ACH-6000	0.7 (27.5)	50, 100 (2, 4)	400 (16)	25 (27)

\*Please inquire for products with other standards than listed above.

### General characteristics

Product No.	Total thickness mm(mil)	Tensile strength N/25mm (lbs/in)	Elongation (%)	Adhesion/180° peel test N/25mm(oz/in)	Breakdown voltage/substrate only (kV)	Maximum service temperature °C (°F)
ACH-6000	0.7 (27.5)	—	—	5 (18)	11	130 (266)

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

### Primary applications

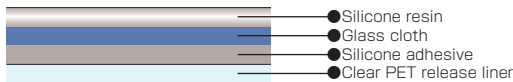
- Roll masking during adhesive or glue treatments.
- Add traction power to feeder rollers for films and unwoven fabrics, etc.
- Temporary holding during product transport.

# 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.

### Structure



### General dimension

Product No.	Total thickness mm(mil)	Width : mm (in)		Length m(yd)
		Standard product	Maximum width	
ACH-6100	0.28 (11.0)	25, 50 (1, 2)	350 (14)	25 (27)

\*Please inquire for products with other standards than listed above.

### General characteristics

Product No.	Total thickness mm(mil)	Tensile strength N/25mm (lbs/in)	Elongation (%)	Adhesion/180° peel test N/25mm(oz/in)	Breakdown voltage/substrate only (kV)	Maximum service temperature °C (°F)
ACH-6100	0.28 (11.0)	790 (178)	—	3 (11)	8	200 (390)


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

### Primary applications

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

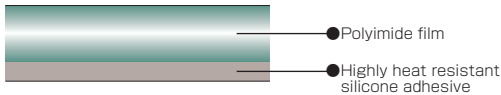
# API-114A FR

## Excellent heat resistance and insulation.

Conformable to UL 510 (File No.E105318) 

This tape consists of silicone adhesive applied to a polyimide film, and is suited for applications where heat resistance and electrical insulation is required.  
 ※These come in light adhesion and separator type tapes.

### Structure



### General dimension

Product No.	Total thickness mm(mil)	Width : mm (in)		Length m(yd)
		Standard product	Maximum width	
API-114A FR	0.06 (2.3)	13, 19, 25 (1/2, 3/4, 1)	450 (17)	10 (11)
	0.08 (3.2)			20 (22)

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

### General characteristics

Product No.	Total thickness mm(mil)	Tensile strength N/25mm (lbs/in)	Elongation (%)	Adhesion/180° peel test N/25mm (oz/in)	Breakdown voltage/substrate only (kV)	Maximum service temperature °C (°F)
API-114A FR	0.06 (2.3)	150 (34)	70	6 (21)	7	250 (480)
	0.08 (3.2)	240 (54)		8 (29)		

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

### Primary applications

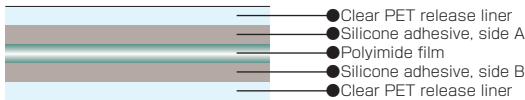
- Electrical insulation at high temperatures
- Heat resistant masking for soldering and other processes.

# 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.

### Structure



### General dimension

Product No.	Total thickness mm(mil)	Width : mm (in)		Length m(yd)
		Standard product	Maximum width	
API-214A	0.085 (3.3)	25, 50 (1, 2)	450 (17)	10 (11)

※Please inquire for products with other standards than listed above.

### General characteristics

Product No.	Total thickness mm(mil)	Tensile strength N/25mm (lbs/in)	Elongation (%)	Adhesion/180° peel test N/25mm (oz/in)	Breakdown voltage/substrate only (kV)	Maximum service temperature °C (°F)
API-214A	0.085 (3.3)	150 (34)	70	5 (18)	8	250 (480)

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

### Primary applications

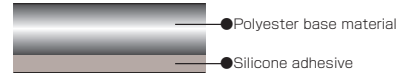
- Temporary holding under high-temperature conditions.
- Temporary holding during solder reflow.
- Slip prevention under high-temperature conditions.

# ACH-5201A

## Polyester Adhesive Tape Optimized for Splicing

This tape consists of silicone adhesive applied to a base material made of black polyester film. The 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.

**Structure**



**General dimensions**

Product no.	Total thickness : mm(mil)	Standard product width : mm (in)	Maximum width : mm (in)	Length : m (yd)
ACH-5201A	0.055 (2.2)	25, 50 (1, 2)	450 (17)	33 (36)

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

**General characteristics**

Product no.	Total thickness mm(mil)	Tensile strength N/25mm(lbs/in)	Elongation (%)	Adhesion/180° peel test N/25mm(oz/in)	Breakdown voltage/substrate only (kV)	Maximum service temperature °C(°F)
ACH-5201A	0.055(2.2)	80 (180)	80	7 (25)	6	130 (266)

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

**Primary applications**

- Heat-resistant masking.
- Insulated masking.
- Joint for backing paper, etc. (splicing)

# ACH-5001 FR

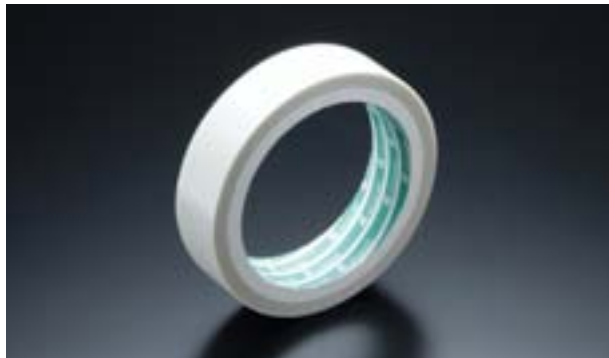
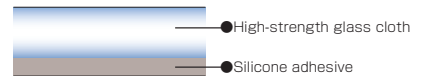
## Glass Cloth Adhesive Tape with Excellent Mechanical Strength.

Conformable to UL 510 (File No.E105318)



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.

**Structure**



**General dimensions**

Product no.	Total thickness : mm(mil)	Standard product width : mm (in)	Maximum width : mm (in)	Length : m (yd)
ACH-5001 FR	0.2(7.8)	13, 19, 25, 38, 50, 100(1/2, 3/4, 1, 1 1/2, 2, 4)	500(20)	10(11)

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

**General characteristics**

Product no.	Total thickness mm(mil)	Tensile strength N/25mm(lbs/in)	Elongation (%)	Adhesion/90° peel test N/25mm(oz/in)	Breakdown voltage/substrate only (kV)	Maximum service temperature °C(°F)
ACH-5001 FR	0.2(7.8)	700 (157)	—	10(36)	6	200(390)

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

**Primary applications**

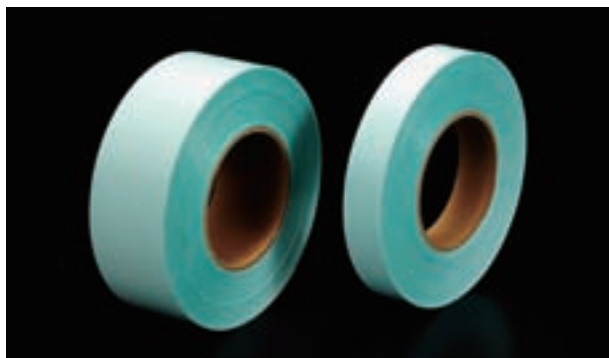
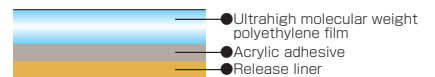
- Insulation for electrical equipment.
- Temporary holding and protection under high-temperature conditions.

# AUE-112B

## UHMW adhesive tape with excellent wear resistance and slipping characteristics.

This tape consists of acrylic adhesive applied to a UHMW made of ultrahigh molecular weight polyethylene film. It provides excellent wear resistance and slipping characteristics that are second only to fluororesin.

**Structure**



**General dimensions**

Product no.	Total thickness : mm(mil)	Standard product width : mm (in)	Maximum width : mm (in)	Length : m (yd)
	AUE-112B			

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

**General characteristics**

Product no.	Total thickness mm(mil)	Tensile strength N/25mm(lbs/in)	Elongation (%)	Adhesion/180° peel test N/25mm(oz/in)	Breakdown voltage/substrate only (kV)	Maximum service temperature °C(°F)
AUE-112B	0.30 (11.9)	400 (90)	360	10 (36)	25	80 (176)

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

**Primary applications**

- 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.



## Explanation of grades and general characteristics

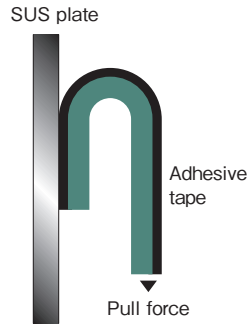
Product No.	Base material	Adhesive	Total thickness mm (mil)	Tensile strength N/25mm (lbs/in)	Elongation (%)	Adhesion/180° peel test N/25mm (oz/in)	Breakdown voltage/ substrate only (kV)	Maximum service temperature °C (°F)	Release liner yes/no	
ASF-110FR	PTFE film	Silicone pressure-sensitive adhesive	0.08(3.2)	70(16)	180	7(25)	10	200(390)	Yes	
			0.13(5.1)	160(36)		8(29)	15			
			0.18(7.1)	250(56)		9(32)	18			
			0.23(9.1)	340(76)		10(36)	21			
ASF-121FR		Silicone pressure-sensitive adhesive	0.08(3.2)	90(20)	220	7(25)	9	200(390)	No	
			0.13(5.1)	160(36)		9(32)	13			
			0.18(7.1)	250(56)		10(36)	16			
0.23(9.1)			300(67)	10(36)	18					
ASB-110	PTFE film with antistatic treatment	High heat resistance silicone pressure-sensitive adhesive	0.13(5.1)	70(16)	340	8(29)	—	200(390)	Yes	
ASF-116TFR	Ultra-thin PTFE film with special reinforcement		0.04(1.6)	40(9)	110	3(11)	5	200(390)	No	
ASF-118AFR	PTFE film with ultra-special reinforcement	High heat resistance silicone pressure-sensitive adhesive	0.10(3.9)	220(49)	70	7(25)	10	250(480)	No	
ASF-115(MX)	PTFE film with special reinforcement	Silicone pressure-sensitive adhesive	0.10(3.9)	135(30)	40	7(25)	11	200(390)	No	
ASF-119T	Embossed PTFE film		0.35(13.7)	—	—	8(3.2)	12	200(390)	No	
AGF-100FR	PTFE + glass cloth	Silicone pressure-sensitive adhesive	0.13(5.1)	360(81)	—	9(32)	6	200(390)	Yes	
			0.15(5.9)	540(121)		13(46)	5			
			0.18(7.1)	540(121)		11(39)	6			
			0.30(11.9)	1220(274)		14(50)	6			
AGF-100A		PTFE + glass cloth	High heat resistance silicone pressure-sensitive adhesive	0.13(5.1)	360(81)	—	10(36)	6	250(480)	No
AGF-101			Silicone pressure-sensitive adhesive	0.24(9.4)	1000(225)	—	13(46)	8	200(390)	Yes
AGF-102			Silicone pressure-sensitive adhesive	0.13(5.1)	380(15)	—	9(0.4)	—	—	No
AGB-207-6-1			Acrylic pressure-sensitive adhesive	0.11(4.3)	450(101)	—	1.8(6.4)	—	80(176)	liner only
ACH-6000	Embossed silicone film	Silicone pressure-sensitive adhesive	0.7(27.5)	—	—	5(18)	11	130(266)	liner only	
ACH-6100	Silicone + glass cloth		0.28(11.0)	790(178)	—	3(11)	8.8	200(390)	liner only	
API-114A	Polyimide film	High heat resistance silicone pressure-sensitive adhesive	0.06(2.3)	150(34)	70	6(21)	7	250(480)	No	
API-214A		Silicone pressure-sensitive adhesive	0.08(3.2)	240(54)		8(29)	10			
API-214A		Silicone pressure-sensitive adhesive	0.085(3.3)	150(34)	70	5(18)	8	250(480)	liner only	
ACH-5201A	Polyester	Silicone pressure-sensitive adhesive	0.055(2.2)	80(180)	50	7(25)	6	130(266)	No	
ACH-5001FR	High-strength glass cloth		0.2(7.8)	700(157)	—	10(36)※	6	200(390)	No	
AUE-112B	Ultrahigh molecular weight polyethylene film	Acrylic pressure-sensitive adhesive	0.30(11.9)	400(90)	360	10(36)	25	80(176)	liner only	

※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.

### Adhesion (180° peel test)

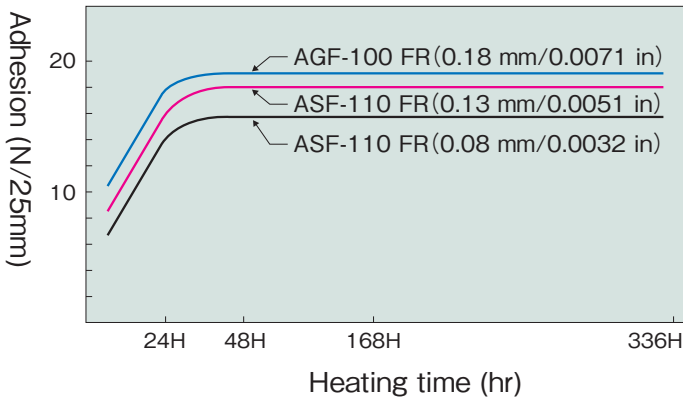
Measurement method	180° peel test (25mm in width)
Adhesion area	25mm width x 150mm (1 inch width x 6 inch)
Test speed	300 mm/min (12 inch/min)
Base plate	SUS plate



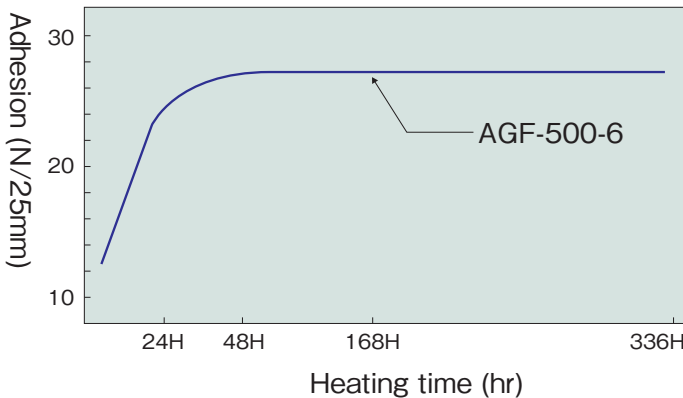
To adhere the tape, move a 2 kg rubber roll back and forth while pressing the tape. Measure the pull force while peeling off the tape. Record the pull force exerted when the tape comes off by 100 mm.

### Adhesive power after heating test

(Heating temperature = 180°C; base plate = stainless steel)



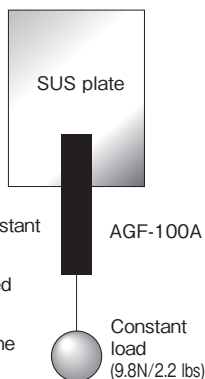
(Heating temperature = 180°C; base plate = stainless steel)



### Holding power

Temperature	AGF-100A	AGF-100 FR
200°C (390°F)	Min. 360 h	Max. 1 h
250°C (480°F)	Min. 360 h	Max. 2 min (0.08 in)

- Test method: JIS Z0237 (see the right figure)
- Specimen thickness: 0.13 mm (0.0051 in)
- Contact area: 25 mm x 25 mm (1 in x 1 in)
- At each temperature, measure the time until the (constant loaded) tape comes off the stainless steel plate.
- The figures in the table are measured, not guaranteed values.
- The holding power may slightly differ depending on the material of the adherend.



### ISO 9001 and 14001 certified

Chukoh Chemical Industries has been certified under ISO 9001 and 14001, which are international standards for quality and environmental management.

■ Scope of registration / Design, manufacture, and sale of products containing fluororesin and products with fluororesin or silicone resin coatings. Design and management of consignment manufacturing of biodegradable resin products.



### UL standard certification

Chukoh Flo® Adhesive Tape AGF-100 FR, ASF-110 FR, ASF-121 FR, ASF-116T FR, ASF-118A FR, API-114A FR, and ACH-5001 FR are UL standard certified.



### The "FR" suffix

In response to being certified for the UL standard, the "FR" suffix was added to the names of a number of products on July 1, 2009. These products remain the same as previous products as no changes have been made to their specifications, quality, or manufacturing processes.

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## Product Inquiries

Please email or call us at the number below for any questions that you may have regarding our products.

Email : [support@chukoh.co.jp](mailto:support@chukoh.co.jp)

### Warning

- 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 (MSDS), and fluororesin handling instructions to maintain the product's designed performance and to use the product safely.