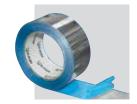


# K-FLEX Tapes



for HVAC and industrial application











A NEW, WIDE RANGE OF HVAC AND INDUSTRIAL TAPES BY K-FLEX.

FROM HVAC DUCT TAPES TO A VARIETY OF DIFFERENT FOIL TAPES TO MEET YOUR APPLICATION REQUIREMENTS.

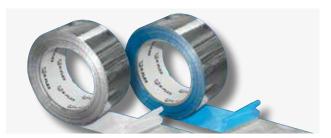
ALL K-FLEX PRODUCTS ARE MANUFACTURED TO THE HIGHEST STANDARDS, USING THE BEST QUALITY RAW MATERIALS AND PRODUCTION METHODS.

FIND MORE INFORMATION IN OUR DOWNLOAD AREA: WWW.KFLEXSYSTEM.COM



# K-FLEX ALU AA CW TAPE

# Aluminum Foil Tape



High tensile strength aluminum foil, combined with cold weather solvent acrylic adhesive, protected by an easy-release silicone release paper or silicone coated blue polyethylene liner. Cold Weather version (low temperatures).

### Measurements:

Thickness: 25 - 30 - 40 Micron Width: 50 - 75 - 100 mm

Length: 50 m

### Features:

- > Aluminum foil provides excellent reflection of both heat and light.
- > High quality adhesive with strong adhesion offers a permanent seal and bond on Foil-Scrim-Kraft Facing joints and seams in HVAC ductwork applications.
- > Good resistance to aging, both indoors and outdoors.
- > Low moisture vapor transmission rate offers excellent performance.

# Applications:

HVAC industry for joining and sealing Foil-Scrim-Kraft Facing laminated ductwrap / duct board joints and seams; joining and sealing flexible air duct seams and connections. General purpose holding, patching, sealing and masking applications – indoors and outdoors.

# Storage & shelf life:

12 months when stored at 21°C (70°F) / 50% relative humidity out of direct sunlight.

# Surface preparation:

It is essential, as with all pressure-sensitive tapes, that the surface to which the tape is applied must be clean, dry, free of grease, oil or other contaminants.

# Product use:

It is essential that the user evaluate the products to determine whether it is fit for a particular purpose and user's method of application. Good results will be obtained when applied to a clean, dry surface with a suitable pressure on products between  $+10 \sim +40$ °C ( $+50 \sim +105$ °F).

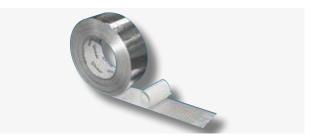
# TECHNICAL DATA

	K-FLEX ALU AA 130 GW	K-FLEX ALU AA 130 PLUS CW	K-FLEX ALU AA 140 GW	TEST METHOD
Backing thickness	25 Micron	30 Micron	40 Micron	PSTC-133 / ASTM D 3652
Total thickness	60 Micron	70 Micron	80 Micron	PSTC-133 / ASTM D 3652
Adhesion to steel	15 N/25mm	15 N/25mm	15 N/25mm	PSTC-101 / ASTM D 3330
Rolling ball tack test	5 cm	5 cm	5 cm	PSTC-6 / ASTM D 3121
Tensile strength	40 N/25mm	45 N/25mm	55 N/25mm	PSTC-131 / ASTM D 3759
Elongation	3.0 %	3.0 %	3.0 %	PSTC-131 / ASTM D 3759
Service tempera- ture	-35 ~ +120 °C	-35 ~ +120 °C	-35 ~ +120 °C	

The physical properties of the products shown above are obtained from test methods defined by Technical Standards Authorities, Quality Assurance and Technical Service Departments and do not represent a guarantee of product performance. Individual tapes may vary from these parameters and in all applications the end user should determine whether the product is fit for a particular purpose and is suitable for the user's method of application before use.

# K-FLEX ALU AR CW TAPE

# Foil-Scrim Tape



Foil-Scrim backing, combined with cold weather solvent acrylic adhesive, protected by an easy-release silicone release paper. Cold Weather version (low temperatures).

# Measurements:

Thickness: 43 - 50 Micron Width: 50 - 75 - 100 mm

Length: 50 m

### Features:

- > Foil-Scrim provides excellent reflection of both heat and light.
- > High quality adhesive with strong adhesion and holding power offers reliable and durable Foil-Scrim Facing for joints and seams sealing in HVAC and ductwork applications.
- > Low moisture vapor transmission rate makes K-FLEX ALU AR 107 an excellent vapor barrier.
- > Service Temperature range from -30  $\sim$  +120 °C (-22 $\sim$  +248 °F).

# Applications:

HVAC industry for joining and sealing Foil-Scrim Facing laminated blankets / duct board / pipe section joints and seams; joining and sealing flexible air duct seams and connections. May also be used for other industrial uses requiring a tape with these characteristics and benefits.

### Storage & shelf life:

12 months when stored at 21°C (70°F) / 50% relative humidity out of direct sunlight

# Surface preparation:

It is essential, as with all pressure-sensitive tapes, that the surface to which the tape is applied must be clean, dry, free of grease, oil or other contaminants.

# Product use:

It is essential that the user evaluate the products to determine whether it is fit for a particular purpose and user's method of application. Good results will be obtained when applied to a clean, dry surface with a suitable pressure on products between  $+10 \sim +40$ °C ( $+50 \sim +105$ °F).

# TECHNICAL DATA

K-FLEX ALU AR 107 CW TAPE				
Backing thickness	43 Micron	PSTC-133 / ASTM D 3652		
Total thickness	83 Micron	PSTC-133 / ASTM D 3652		
Adhesion to steel	15 N/25mm	PSTC-101 / ASTM D 3330		
Rolling ball tack test	5 cm	PSTC-6 / ASTM D 3121		
Tensile strength	100 N/25mm	PSTC-131 / ASTM D 3759		
Elongation	3.0%.	PSTC-131 / ASTM D 3759		
Service temperature	-30 ~ +120 °C			

K-FLEX ALU AR 107 PLUS CW TAPE			
Backing thickness	50 Micron	PSTC-133 / ASTM D 3652	
Total thickness	90 Micron	PSTC-133 / ASTM D 3652	
Adhesion to steel	15 N/25mm	PSTC-101 / ASTM D 3330	
Rolling ball tack test	5 cm	PSTC-6 / ASTM D 3121	
Tensile strength	120 N/25mm	PSTC-131 / ASTM D 3759	
Elongation	3.0%.	PSTC-131 / ASTM D 3759	
Service temperature	-30 ~ +120 °C		

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# K-FLEX ALU BLACK CW TAPE

# Coloured Aluminum Foil Tape



Black lacquered 30 micron (1.2 mil) aluminum foil, combined with cold weather solvent acrylic adhesive, protected by an easy-release silicone release paper or silicone coated blue polyethylene liner. Cold Weather version (low temperatures).

Measurements:

Thickness: 30 Micron Width: 50 - 75 - 100 mm

Length: 50 m

### Features:

- > Lacquered aluminum foil.
- > Good aging resistance, both indoors and outdoors.
- > Low moisture vapor transmission rate offers excellent sealing and patching performance.

### **Applications**

HVAC industry for joining and sealing black lacquered Foil-Scrim-Kraft Facing laminated ductwrap / duct board / pipe insulation's joints and seams. May also be used for other industrial uses requiring a tape with these characteristics and benefits.

# Storage & shelf life:

12 months when stored at 21°C (70°F) / 50% relative humidity out of direct sunlight.

# Surface preparation:

It is essential, as with all pressure-sensitive tapes, that the surface to which the tape is applied must be clean, dry, free of grease, oil or other contaminants.

### Product use:

It is essential that the user evaluate the products to determine whether it is fit for a particular purpose and user's method of application. Good results will be obtained when applied to a clean, dry surface with a suitable pressure on products between  $+10 \sim +40$ °C ( $+50 \sim +105$ °F).

# TECHNICAL DATA

K-FLEX ALU NERO CW TAPE				
Backing thickness	30 Microns	PSTC-133 / ASTM D 3652		
Total thickness	70 Microns	PSTC-133 / ASTM D 3652		
Adhesion to steel	15 N/25mm	PSTC-101 / ASTM D 3330		
Rolling ball tack test	5 cm	PSTC-6 / ASTM D 3121		
Tensile strength	45 N/25mm	PSTC-131 / ASTM D 3759		
Elongation	3.0 %	PSTC-131 / ASTM D 3759		
Service temperature	-35 ~ +120 °C			

The physical properties of the products shown above are obtained from test methods defined by Technical Standards Authorities, Quality Assurance and Technical Service Departments and do not represent a guarantee of product performance. Individual tapes may vary from these parameters and in all applications the end user should determine whether the product is fit for a particular purpose and is suitable for the user's method of application before use.

Available also in ALU WHITE version.

# K-FLEX > TAPES

# K-FLEX FSK FAOING TAPE



3-way Foil-Scrim-Kraft backing, combined with aggressive cold weather solvent acrylic adhesive, protected by an easy-release silicone release paper.

### Measurements:

Thickness: 120 Micron Width: 75 - 100 - 125 mm

Length: 45,7 m

### Features

- > 3-way Foil-Scrim-Kraft provides excellent reflection of both heat and light.
- > Cold weather adhesive with strong adhesion offers good sealing and bonding on Foil-Scrim-Kraft Facing joints and seams in HVAC ductwork applications.
- > Good aging resistance, both indoors and outdoors.
- > Low moisture vapor transmission rate offers excellent sealing and patching performance.

# Applications:

HVAC industry for joining and sealing Foil-Scrim-Kraft Facing laminated fiberglass blanket / duct board joints and seams; joining and sealing flexible air duct seams and connections. May also be used for other industrial uses requiring a tape with these characteristics and benefits.

### Storage & shelf life:

12 months when stored at 21°C (70°F) / 50% relative humidity out of direct sunlight.

# Surface preparation:

It is essential, as with all pressure-sensitive tapes, that the surface to which the tape is applied must be clean, dry, free of grease, oil or other contaminants.

# Product use:

It is essential that the user evaluate the products to determine whether it is fit for a particular purpose and user's method of application. Good results will be obtained when applied to a clean, dry surface with a suitable pressure on products

between +10 ~ +40°C (+50 ~ +105 °F).

# TECHNICAL DATA

Backing thickness	120 Micron	PSTC-133 / ASTM D 3652
Total thickness	170 Micron	PSTC-133 / ASTM D 3652
Adhesion to steel	16 N/25mm	PSTC-101 / ASTM D 3330
Rolling ball tack test	5 cm	PSTC-6 / ASTM D 3121
Tensile strength	120 N/25mm	PSTC-131 / ASTM D 3759
Elongation	2.0 %	PSTC-131 / ASTM D 3759
Service temperature	-35 ~ +80 °C	

The physical properties of the products shown above are obtained from test methods defined by Technical Standards Authorities, Quality Assurance and Technical Service Departments and do not represent a guarantee of product performance. Individual tapes may vary from these parameters and in all applications the end user should determine whether the product is fit for a particular purpose and is suitable for the user's method of application before use.



# K-FLEX DLOTH DUCT TAPE



High Quality PE Duct Tape, adopts high grade fabric cloth with color polyethylene covering, coats improved synthetic rubberresin adhesive coated. It enjoys fast stick, straight and smooth tear, good tensile strength, excellent moisture resistant. It conforms well to irregular surface. It is a good choice for bundling, heavy carton packing, general maintenance, pipe wrapping, carpet fixing, air-conditioning duct's seam and joint sealing etc.

Measurements:

Width: 50 - 75 - 100 mm

Length: 50 m

# Storage & shelf life:

12 months when stored at 21°C (70°F) / 50% relative humidity out of direct sunlight.

It is essential that the user evaluate the products to determine whether it is fit for a particular purpose and user's method of application. Good results will be obtained when applied to a clean, dry surface with a suitable pressure on products between  $+10 \sim +40$ °C ( $+50 \sim +105$ °F).

# TECHNICAL DATA

	Mesh	Color	Thickness Micron	Adhesion N/25mm	Tensile N/25mm	Elongation %	Service temp. °C
CLOTH DUCT 1604H	35	Silver	160	16	75	12	-20 ~ +60
CLOTH DUCT 1804H	35	Silver and Black	180	18	80	12	-20 ~ +60
CLOTH DUCT 1805H	50	Silver	180	18	85	12	-20 ~ +60

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Other colours on request: Silver, Black, White, Red Yellow, Green, Blue, Beige.

# K-FLEX BITUMINOUS CONGLOMERATE TAPE



This product was formulated to provide insulation and to prevent condensation on pipes, fittings, and tubings used in heating, air conditioning, refrigeration, and plumbing.

Measurements: Thickness: 3 mm Width: 50 mm Length: 9,5 m

# Composition:

This product is a polymer-based material containing butyl rubber, asphalt, and granulated cork (55% by volume). It contains no fibers.

This product adheres to most clean, dry surfaces and to itself, making it possible to apply more than one layer without adding fasteners or adhesives. It is sufficiently soft and pliable to be molded around most fittings and connections. The material retains its flexibility and adhesion after prolonged exposure to UV and over a service temperature range of – 20 °F to 190 °F (-29 °C to 88 °C). It is black in colour and has a grainy, rubber-like consistency.

# Storage & shelf life:

Indefinite if stored under normal warehouse conditions.

# TECHNICAL DATA

	Test method	Values
Composition		Elastomeric synthetic materials
Color	ASTM D1729	Black
Odor		No odor
Service Temperature		From -30°C to +100°C
% Solids	ASTM C771	>99% by weight
Specific Gravity	ASTM D297	$0.99 \pm 0.05 \text{ g/cm}^3$
Tensile Yield	ASTM C907	2,688 bar
Elongation	TP-019	>2 inches

# K-FLEX PVC AT 070 SELF-ADHESIVE TAPE



A thin premium grade plasticized PVC film coated with an aggressive rubber based adhesive with good characteristics. It is highly conformable and unaffected by most chemicals and moisture. Meet ROHS, REACH requirement. It does not contain substances harmful to human body, such as lead and cadmium.

Measurements:

Width: 25 - 38 - 50 mm

Length: 25 m

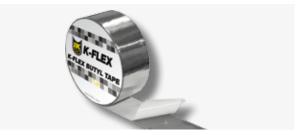
# Applications:

- > Electric insulation below 600V
- > Insulating wrapping of electric wires and cables
- > Marking of electric wires and cables
- > Can be used indoor and outdoor

# TECHNICAL DATA

	Value	Unit	Test method
Total thickness	0.13	mm	ASTM-D-1000
Tensile strength	20	N/cm	ASTM-D-1000
Elongation	200	%	ASTM-D-1000
Adhesion Strength:			
> to steel	1.5	N/cm	ASTM-D-1000
> to backing	1.5	N/cm	ASTM-D-1000
Voltage resistance	600	V	UL510
Temperature resistance	80	°C	ASTM-D-1000
Flame resistance	<2	S	ASTM-D-1000
Content of Heavy Metal:			
Lead, Cadmium	<30	ppm	US EPA3052
Mercury, Chromium	<10	ppm	US EPA3060A
Polybrominated biphenyl	<10	ppm	US EPA3540C

# NASTO K-FLEX BUTILICO



K-FLEX Butyl Tape is a self-adhesive sealing tape consisting of a high-performance butyl rubber adhesive compound, protected by a reinforced aluminium film. K-FLEX Butyl Tape is highly adhesive, even at low temperatures, to all common building materials. K-FLEX Butyl Tape is highly resistant to ageing and UVrays. K-FLEX Butyl Tape is available in various sizes for multipurpose applications.

Measurements: Thickness: 0.6 mm Width: 50 - 100 mm Length: 10 m

# Features:

> Tear-resistant;

> Excellent heat stability;

> Cold applied;

> Resistant to ageing and to UV-rays;

> Excellent adhesion at low temperatures;

> No oil migration;

> Waterproof and self-sealing;

> Solvent-free.

### Applications:

Choose the most suitable width and metal finish of the sealing tape. Unroll the tape until the desired length is reached. Start removing the release liner that covers the adhesive part of the tape and position the sealing tape. Carry out a rollpressing to avoid entrapment of air bubbles. When connecting two tapes, use an overlap of at least 5 cm. Press with a roller or a cloth pad.

# Storage & shelf life:

The quality and the characteristics of the materials remain unaltered for a long period of time. However, it is recommended to use the product within 12 months from production date. The product must be stored in the original and unopened packaging in a dry and well ventilated place at a temperature between + 5 °C and + 40 °C. Storage above 50 °C may lead to difficulties in removing the release liner when applying. The product is not affected by frost.

# Surface preparation:

The sealing tape must be applied to a clean, dry, smooth and dust-free surface. For an application between 0 °C and 5 °C, ensure that frost or condensation are absent on the surface. In case of porous supports it's advisable to stabilize the surface. No special tools are required to install this sealing tape.

# Product use:

Sealing and joining materials such as glass, steel, Plexiglas, polycarbonate, wood, aluminium, PVC. K-FLEX Butyl Tape can be used for the sealing of doors and windows frames, conservatories, gutters, piping and ducting. K-FLEX Butyl Tape can also be applied in construction on canopies, roofs, chimneys and skylights.

# TECHNICAL DATA

	Value	Test method
Film Type / Colour	Aluminium - PET	-
Compound Type / Colour	Butyl Rubber Adhesive / Grey	
Standard Thicknesses	0.6 mm	
Tensile Strength	Long. > 150 N / 50 mm   Tras. > 150 N / 50 mm	EN 12311-1
Elongation at Break	Long. > 20 %   Tras. > 20 %	EN 12311-1
Solids	100%	-
90° Peel Adhesion	≥ 90 N	ASTM D 1000
Probe Tack	≥ 8.0 N	ASTM D 2979
Vertical Flow	0 mm	ISO 7390
Application Temperature Range	0 °C / + 40 °C	
Service Temperature Range	- 30 °C / + 90 °C	

# **TEST REPORTS**

Flammability Classification: M1, Non-flammable, test by SNPE N°14647-09 (UNE 23727:1990, UNE 23721:1990, NFP 92501). Fire classification: E, test by MPA Stuttgart (EN ISO 11925-2, EN 13501-1).

Permeability to Vapour: 1,29  $e^{-16}$  kg / (m.s.Pa) -  $\mu$  = 1,53  $e^{+6}$ , test by CSTB CPM 11/260-33839 (NF EN 1931).

The manufacturer disclaims all liability for product use and applications. Butyl sealants are plastic products. They possess no elastic recovery. Do not use for permanent fixing or in load bearing applications instead of an adhesive or a mechanical fixing. Butyl adhesive are sensitive to solvents. It is advisable to check the chemical compatibility of the butyl adhesive with the substrate adhesives.



# K-FLEX VINYL BAND

black

Flexible, robust and resistant to external agents, used for covering pipes insulated with elastomeric insulation or other materials. The small roll sizes allow for applications even in tight and narrow spaces. The wide range of colours available allows for a correct colour-coding of pipes, in compliance with the law.

Colours: red green blue grey (K-Pack RS 590 type) light grey Measurements: Thicknesses: 0,1 mm Lengths: 50 - 25 m Width: 10 cm





# K-FLEX GUTTAGENA BAND



Twice the thickness compared to the previous range, it is ideal for finishing PVC sheet insulation coverings (eg. K-FLEX PACK RS 590). The GUTTAGENA band is available in one colour, light grey, and is matt finished.

Measurements: Thicknesses: 0,2 mm Lengths: 50 m Widths: 5 - 10 cm

# K-FLEX PE INSULATION TRIMMING



Self-adhesive closed-cell wired foam PE packing, used to cover the seal flange in air-conditioning ducts.

Measurements: Thicknesses: 3 mm Length: 20 m

Height: 15 - 20 - 25 mm

# K-FLEX ST ANTICONDENSATION TAPE

# Elastomeric tape



Highly flexible closed cell elastomeric foam (FEF) suitable for hot and cold thermal insulation, featuring a combination of low thermal conductivity, high water vapour diffusion resistance and low flame spread.

Measurements: Thickness: 3 mm Lengths: 10 - 15 m

Heights: 15 - 25 - 30 - 50 - 75 - 100 mm

# Applications:

Pipes, ducts, tanks, applied for refrigeration, air conditioning, heating and plumbing, pipe fittings and water ducts, industrial applications for energy saving and/or condensation prevention purposes.

# K-FLEX ECO ANTICONDENSATION TAPE Elastomeric tape halogen free



Highly flexible closed cell elastomeric foam (FEF) suitable for hot and cold thermal insulation, free from halogenated flame retarders and halogenated ingredients, featuring a low toxicity in case of fire.

Measurements: Thickness: 3 mm Length: 15 m Height: 50 mm

# Applications:

Pipes, ducts, tanks, applied for refrigeration, air conditioning, heating and plumbing, pipe fittings and water ducts, industrial applications for energy saving and/or condensation prevention purposes.

# K-FLEX SOLAR HT TAPES Elastomeric tape for high temperature



Flexible closed cell elastomeric foam (EPDM) suitable for hot thermal insulation, specially designed to suit high temperature sapplications.

Measurements: Thickness: 3 mm Length: 15 m Height: 50 mm

# Applications:

Ducts and pipes, specially designed for solar systems and high temperatures.



# The difference is in the DETAIL

# CONTACT DETAILS

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