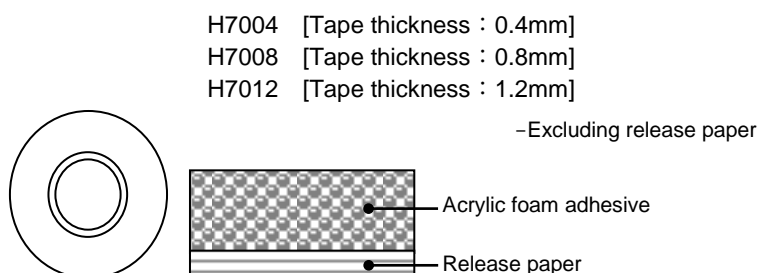


Superior adhesive performance acrylic foam Double-coated adhesive tape **HYPERJOINT®** **H7004, H7008, H7012**

Outline

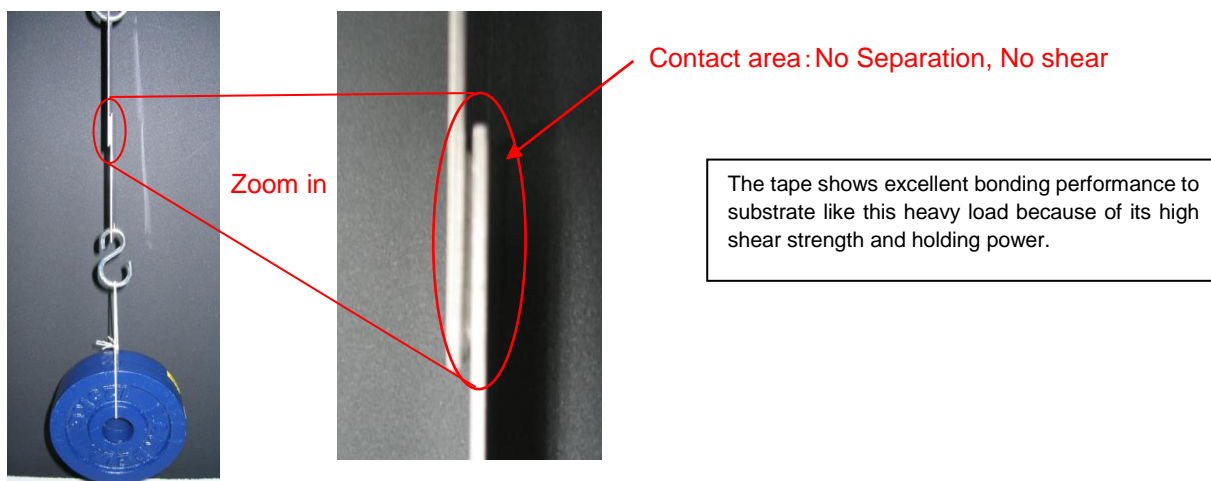
HYPERJOINT® H7004, H7008 and H7012 are double-coated adhesive tapes that have superior adhesion, heat resistance and durability using by flexible acrylic foam.

Structure



Features

- Superior adhesion, heat resistance and water resistance.
- Stable adhesion with following substrate move using by flexible acrylic foam.
- 10 restricted substances by RoHS are not contained.



H7004, H7008, H7012 10-P-0264_E (1/5)

Notes: This data represents examples of measured values, and not guaranteed values. They do not guarantee compatibility with the applications described in these documents. Please confirm compatibility with your application prior to use. We retain all rights, including copyrights, for the contents of these documents. Copying, reprinting and use for purposes other than originally intended are strictly prohibited without our prior expressed permission. Contact details are provided at the end of this document. Please do not hesitate to contact us for any inquiry.

Applications

- Fixing of name plate, sign board and fittings for housing.
- Fixing of exterior components for automobile.
- Fixing of home electronics parts.
- Fixing of metal name plate.

Standards Sizes

Product numbers	Tape thickness [mm]	Width [mm]	Standard Length [M]
H7004	0.4	5 ~ 1,150	20
H7008	0.8	5 ~ 1,150	20
H7012	1.2	5 ~ 1,150	20

For more information, please contact us.

Properties

● 90 degree peeling adhesion by substrates

Substrates	H7004	H7008	H7012
SECC steel plate	82	94	97
Stainless steel plate	60	66	82
Aluminum plate	55	64	55
Acrylic plate	43	47	53
ABS plate	33	43	45
Polycarbonate plate	37	40	44
Polystyrene plate	26	31	33

(Unit: N/25mm)

Backing: Aluminum foil (0.13 mm thickness)

Application condition: 1 pass back and forth with 5kg roller

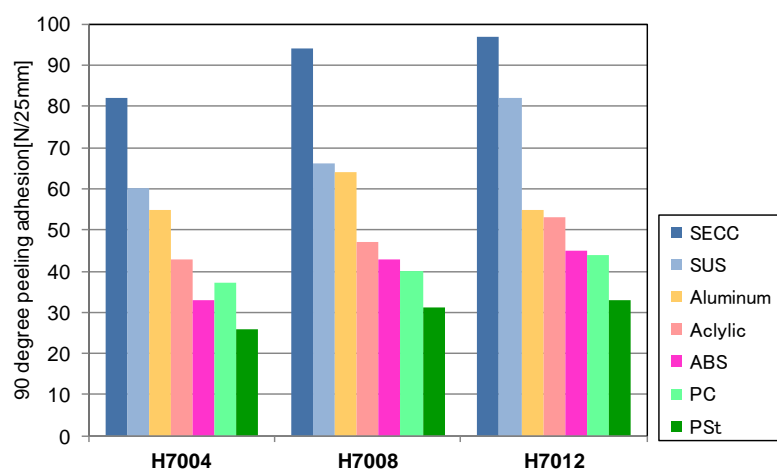
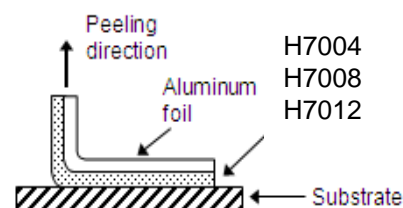
Bonding temperature: 23degreeC/50%RH

Curing condition: 23degreeC/50%RH x 30 min

Peeling speed: 300 mm/min.

Peeling angle: 90 degree

Measurement condition: 23degree C/50%RH



H7004, H7008, H7012 10-P-0264_E (2/5)

Notes: This data represents examples of measured values, and not guaranteed values. They do not guarantee compatibility with the applications described in these documents. Please confirm compatibility with your application prior to use. We retain all rights, including copyrights, for the contents of these documents. Copying, reprinting and use for purposes other than originally intended are strictly prohibited without our prior expressed permission. Contact details are provided at the end of this document. Please do not hesitate to contact us for any inquiry.

● 90 degree peeling adhesion by temperatures

Measurement temperatures		H7004	H7008	H7012
90 degree Peeling adhesion [N/25mm]	0 degree C.	128	142	148
	23 degree C.	60	66	82
	40 degree C.	55	60	66
	80 degree C.	42	57	64
	100 degree C.	39	47	54

(Unit: N/25mm)

Substrate: Stainless steel plate

Backing: Aluminum foil (0.13 mm thickness)

Application condition: 1 pass back and forth with 5kg roller

Bonding temperature: 23degreeC/50%RH

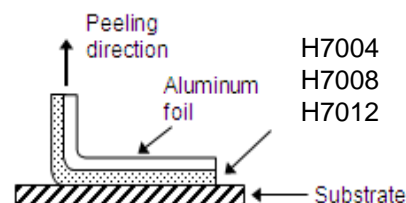
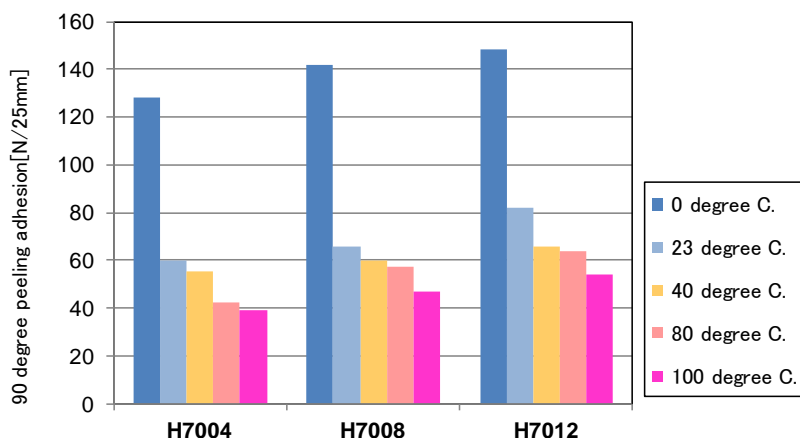
Curing condition: 23degreeC/50%RH x 30 min

And measurement temperature x 30 min

Peeling speed: 300mm/min.

Peeling angle: 90 degree

Measurement condition: 0,23,40,80,100 degreeC



H7004
H7008
H7012

● Shear strength by temperatures

Measurement temperatures		H7004	H7008	H7012
Shear strength [N/cm ²]	0 degree C.	264	215	187
	23 degree C.	132	102	82
	40 degree C.	108	90	77
	80 degree C.	91	85	75
	100 degree C.	76	68	69

(Unit: N/cm²)

Substrate: Stainless steel plate

Tape area: 25mm x 25mm

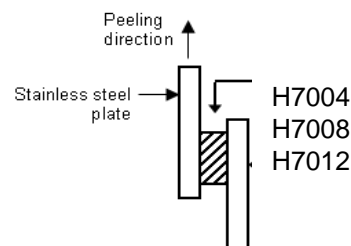
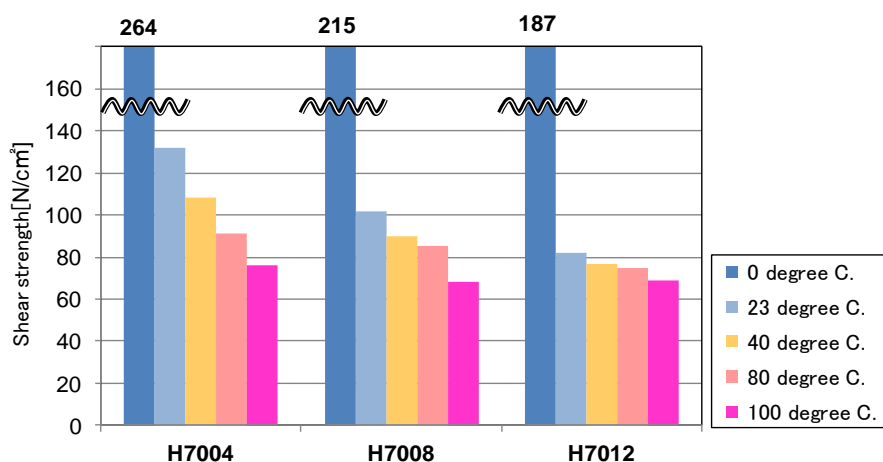
Application condition: 1 pass back and forth with 5kg roller

Bonding temperature: 23degreeC/50%RH

Curing condition: measurement temperature x 30 min

Peeling speed: 50mm/min.

Measurement condition: 0,23,40,80,100 degreeC



H7004
H7008
H7012

H7004, H7008, H7012 10-P-0264_E (3/5)

Notes: This data represents examples of measured values, and not guaranteed values. They do not guarantee compatibility with the applications described in these documents. Please confirm compatibility with your application prior to use. We retain all rights, including copyrights, for the contents of these documents. Copying, reprinting and use for purposes other than originally intended are strictly prohibited without our prior expressed permission. Contact details are provided at the end of this document. Please do not hesitate to contact us for any inquiry.

●Durability (Shear strength)

Evaluation	H7004	H7008	H7012
Initial (23°C x 30minutes)	132	102	82
Ordinary state (23°C x 24hours)	191	134	113
Heat resistance (80°Cx 250hours)	260	207	175
Water resistance (40°C hot water x 250hours)	135	98	76
Thermal cycle resistance※	111	88	78

※Condition of thermal cycle

10 cycles 80°C x 16hours ⇒ 23°C x an hour ⇒ 50°C x 98%RH x 24hours
⇒ 23°C x an hour ⇒ -30°C x 8hours ⇒ 23°C x an hour

(Unit: N/cm²)

Substrate: Stainless steel plate

Tape area: 25mm x 25mm

Application condition: 1 pass back and forth with 5kg roller

Bonding temperature: 23degreeC/50%RH

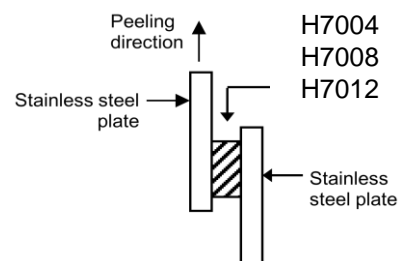
Curing condition: 23degreeC/50%RH x 24hours

And each condition(See the left table)

(Initial: 23degreeC/50%RH x 30min)

Peeling speed: 50mm/min.

Measurement condition: 23degree C/50%RH



●Holding power(Amount of transformation)

Measurement temperature	H7004	H7008	H7012
80 degree C.	0.2	0.3	0.5

(Unit: mm)

Substrate: Stainless steel plate

Backing: Polyester film #50

Tape area: 10mm x 20mm

Application condition: 1 pass back and forth with 5kg roller

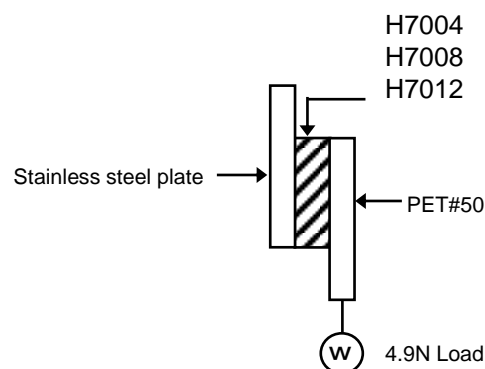
Bonding temperature: 23degreeC/50%RH

Curing condition: 23degreeC/50%RH x 24hours

Load: 4.9N

Measurement temperature: 80 degree C.

Measured amount of transformation after 2hours



H7004, H7008, H7012 10-P-0264_E (4/5)

Notes: This data represents examples of measured values, and not guaranteed values. They do not guarantee compatibility with the applications described in these documents. Please confirm compatibility with your application prior to use. We retain all rights, including copyrights, for the contents of these documents. Copying, reprinting and use for purposes other than originally intended are strictly prohibited without our prior expressed permission. Contact details are provided at the end of this document. Please do not hesitate to contact us for any inquiry.

Precautions



Warning

●Safety Precautions

1. Before using the tape, thoroughly check that if the tape is suit your intended use (purpose and conditions). If you put the tape under the improper application condition, it is likely cause severe troubles such as applied components falling due to external stress or vibration, exterior parts falling while moving, etc. Please use the tape adheres rigidly to the following 'Cares When Using or Storing'.
2. Hands, fingers or any other parts may be injured by the edges of the tape, its separator (liner film), the core, etc. Take proper precautions such as wearing protective gloves or its substitution when handling.

●Cares When Using or Storing

1. The tape is hardly applied to exterior parts such as rubber, polypropylene, polyethylene and vinyl chloride. It is advisable to check in advance the applicability.
(We suggest that those substrates should be treated with primer.)
In addition, the adhesion property might become lower as time passed depending on the exterior parts that include plasticizer a lot. Please due confirm in advance.
2. Remove oil, moisture and dirt from the adherent surface to which the tape is applied. If the dirt is strong, remove with some solvent.
3. Use the tape preferably on flat surface. Exterior parts may fall if these are applied on uneven, rough or curved surface since bonding area is not enough.
4. Initial adhesive strength might be lower since the tape becomes hard at low temperature environment such as winter season. For such cases, we recommend that the tape and your substrate are warmed at around 15 degree C to 40 degree C before application.
Please also pay attention to a type of substrate and an environment that condensation occurs.
5. The adhesive of the tape is pressure-sensitive adhesive. Apply an adequate pressure after the tape is applied.
6. Do not redo attaching the tape. Once it is removed, the adherent surface becomes rough and original adhesive strength may not be obtained.
7. The tape must be left untouched for several hours after it is applied until it is securely bonded. Please avoid putting and using the tape with high power.
8. Store the tape indoors as delivery-packed state at normal temperature and normal humidity so that it is not affected by direct sunlight.
9. Be sure to keep the tape in its box when not using.

Published in March 2019

Authorized Distributor



K. R. Anderson, Inc.
www.krafab.com
408-825-1900

H7004, H7008, H7012 10-P-0264_E (5/5)

Notes: This data represents examples of measured values, and not guaranteed values. They do not guarantee compatibility with the applications described in these documents. Please confirm compatibility with your application prior to use. We retain all rights, including copyrights, for the contents of these documents. Copying, reprinting and use for purposes other than originally intended are strictly prohibited without our prior expressed permission. Contact details are provided at the end of this document. Please do not hesitate to contact us for any inquiry.