

Superior adhesive performance acrylic foam Double-coated adhesive tape
HYPERJOINT[®]

H8004, H8008, H8012

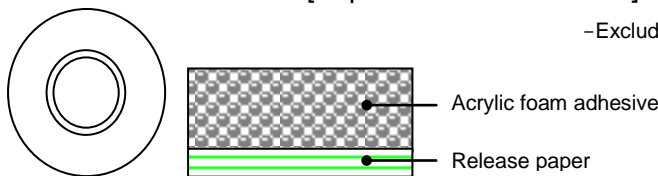
Outline

HYPERJOINT[®] H8004, H8008 and H8012 are double-coated adhesive tapes that have superior adhesion, heat resistance and durability using by flexible acrylic foam.

Structure

H8004 [Tape thickness : 0.4mm]
 H8008 [Tape thickness : 0.8mm]
 H8012 [Tape thickness : 1.2mm]

-Excluding release paper



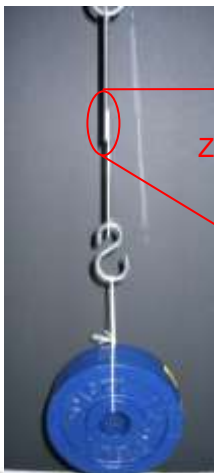
Features

- Superior adhesion, heat resistance and water resistance.
- High adhesion and holding performance exercise stable adhesion.
- 6 restricted substances by RoHS are not contained.



No Separation

Excellent adhesive performance by using flexible and strong acrylic foam.



Zoom in



Contact area: No Separation

The tape shows excellent bonding performance to substrate like this heavy load because of its high shear strength and holding power.

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Applications

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

Standards Sizes

Product numbers	Tape thickness [mm]	Widths[mm]	Lengths[M]
H8004	0.4	25	20
H8008	0.8	25	20
H8012	1.2	25	20

For more information, please contact a person in charge.

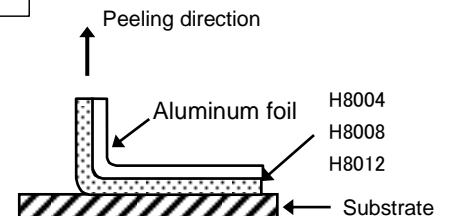
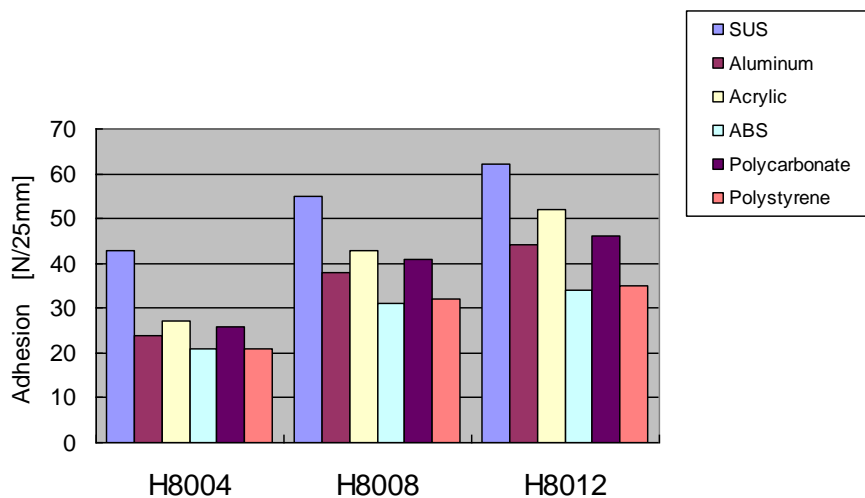
Properties

· 90 degree peeling adhesion by substrates

Substrates	H8004	H8008	H8012
Stainless steel plate	43	55	62
Aluminum plate	24	38	44
Acrylic plate	27	43	52
ABS plate	21	31	34
Polycarbonate plate	26	41	46
Polystyrene plate	21	32	35

(Unit: N/25mm)
 Backing: Aluminum foil (0.13 mm thickness)
 Peeling speed: 300 mm/min
 Peeling angle: 90 degree
 Application condition:
 1 pass back and forth with 5-kg roller at 23 degree C.
 measured adhesion after allowing it to set 30 minutes
 Measurement condition: 23 degree C. x 50%RH

90 degree peeling adhesion by substrates



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·90 degree peeling adhesion by temperatures

Measurement temperatures		H8004	H8008	H8012
90 degree Peeling adhesion [N/25mm]	0 degree C.	46	70	90
	23 degree C.	43	55	62
	40 degree C.	36	50	54
	80 degree C.	32	48	50
	100 degree C.	31	46	49

(Unit: N/25mm)

Backing: Aluminum foil (0.13 mm thickness)

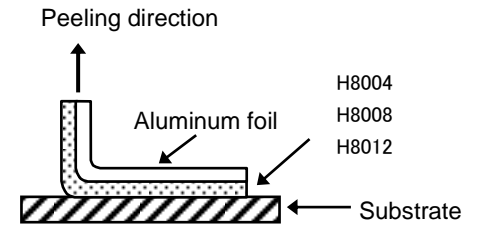
Peeling speed: 300 mm/min:

Application condition:

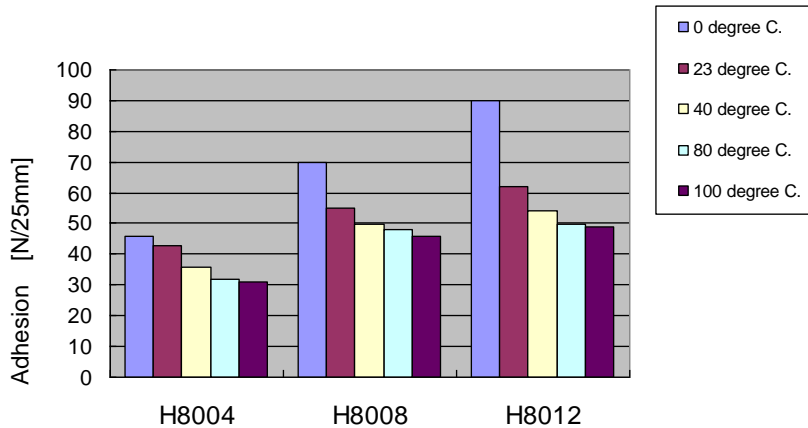
1 pass back and forth with 5-kg roller at 23 degree C.

measured adhesion under various temperatures after allowing it to set 30 minutes

Peeling angle: 90 degree



90 degree peeling adhesion by temperatures



·Shear strength by temperatures

Measurement temperature		H8004	H8008	H8012
Shear strength [N/cm ²]	0 degree C.	245	175	135
	23 degree C.	130	103	80
	40 degree C.	100	69	55
	80 degree C.	65	43	36
	100 degree C.	44	31	26

(Unit: N/cm²)

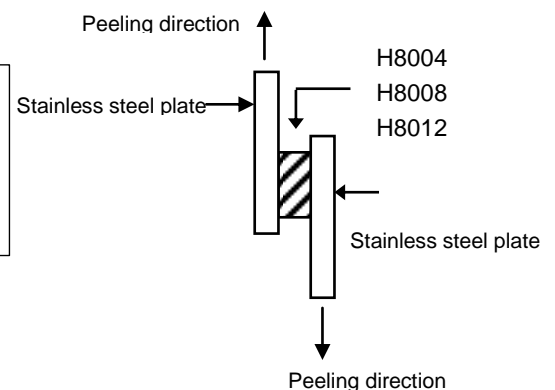
Substrate: Stainless steel plate

Peeling speed: 50 mm/min:

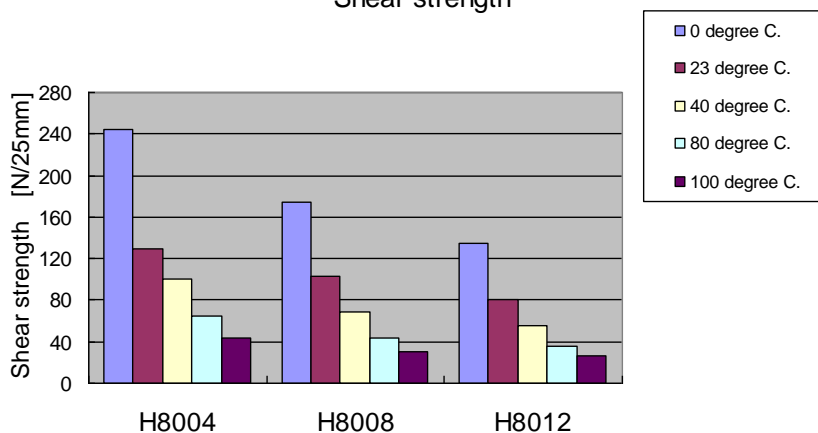
Application condition:

1 pass back and forth with 5-kg roller at 23 degree C.

measured shear strength under various temperature after allowing it to set 30 minutes



Shear strength



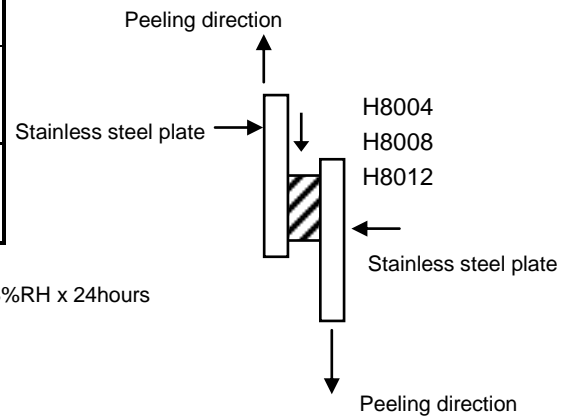
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·Durability (Shear strength)

Evaluation	H8004	H8008	H8012
Initial (23°C x 30minutes)	130	103	80
Ordinary state (23°C x 24hours)	165	115	97
Heat resistance (80°Cx 250hours)	208	174	130
Water resistance (40°C hot water x 250hours)	130	90	71
Thermal cycle resistance*	132	91	75

(Unit: N/c m²)
 Substrate: Stainless steel plate
 Peeling speed: 50 mm/min
 Tape area: 10mm x 20 mm:
 Application condition:
 1 pass back and forth with 5-kg roller at 23 degree C.
 measured adhesion under various conditions
 after allowing it to set 30 minutes
 Measurement condition: 23 degree C. x 50%RH
 Peeling speed: 50mm/min

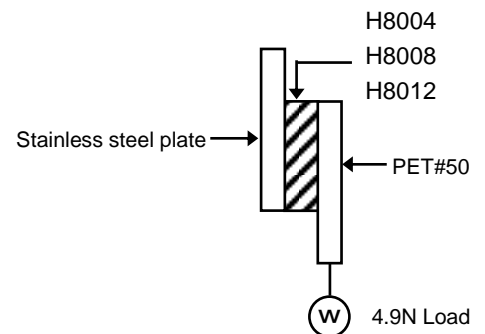


※Condition of thermal cycle
 10 cycles: 80 degree C. x 16hours ⇒ 23 degree C. x an hour ⇒ 50 degree C. x 98%RH x 24hours
 ⇒ 23 degree C. x an hour ⇒ -30 degree C. x 8hours ⇒ 23 degree C. x an hour

·Holding power(Amount of transformation)

Measurement temperature	H8004	H8008	H8012
80 degree C. amount of transformation	0.2	0.6	0.8

(Unit: mm/2hours)
 Substrate: Stainless steel plate
 Backing: Polyester film #50
 Tape area: 10mm x 20 mm
 Load: 4.9N
 Measurement temperature: 80 degree C.
 Measured amount of transformation after 2hours



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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. It is best to apply the tape at air temperature 10°C or above. If the air temperature is lower than 10 °C, the initial adhesive strength of the tape may reduce. Therefore, please use the tape after leaving it in the room temperature at 10°C to 23°C and making it become appropriate condition. Also, please pay attention to kinds of adherend and environment (e.g. condensation).
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 February 20, 2015

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