

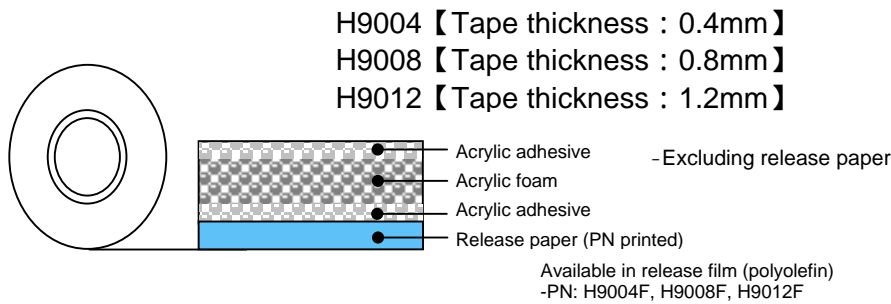
Superior adhesive performance acrylic foam Double-coated adhesive tape

# Hyper Joint H9004, H9008, H9012

## Outline

Nitto Denko H9004, H9008 and H9012 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.



No Separation

Excellent adhesive performance using by flexible and strong acrylic foam.



Initial at laminating



No Separation

Acrylic foam followed with substrate move under temperature change for the time being.

Substrate has been displaced on purpose to imagine substrate move.

## Application

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

## Standards Size

Product number	Tape thickness[mm]	Width[mm]	Length[m]
H 9 0 0 4	0 . 4	2 5	2 0
H 9 0 0 8	0 . 8	2 5	2 0

For more information, please contact us.

## Properties

90 ° peeling adhesion by substrate

Substrate	H9004	H9008
Stainless steel plate	33	55
Aluminum plate	27	35
Acrylic plate	28	30
ABS plate	21	24
Polycarbonate plate	25	27
Polystyrene plate	19	22

(Unit: N/25mm)

Backing: Aluminum foil (0.13mm)

Peeling speed: 300 mm/min

Peeling angle: 90 °

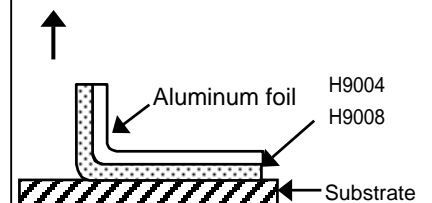
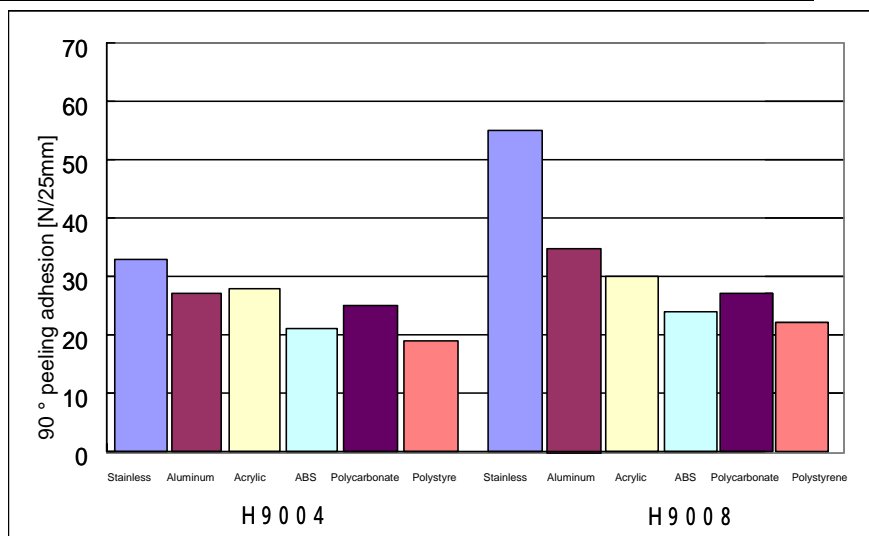
Application condition:

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

measured adhesive strength

after allowing it to set 30 minutes

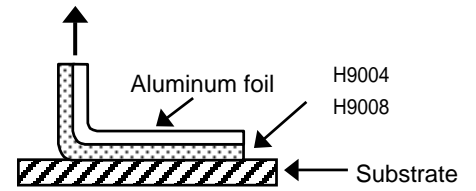
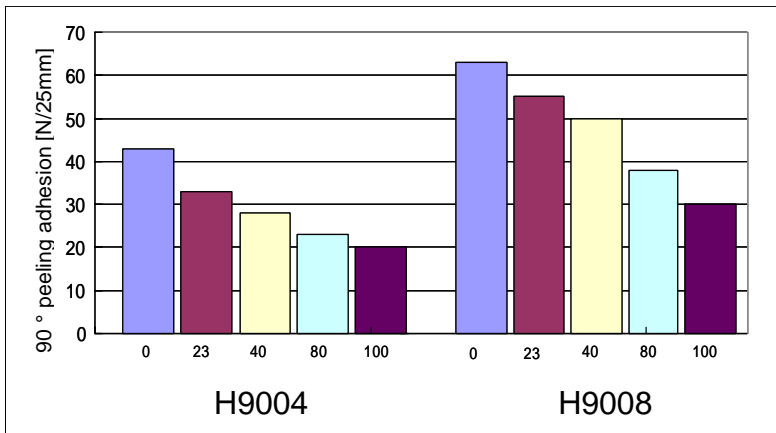
Measurement condition: 23 °C, 50%RH



90 ° peeling adhesion by temperature

Measurement temperature	H9004	H9008	
90 ° Peeling adhesion [N/25mm]	0	43	63
	23	33	55
	40	28	50
	80	23	38
	100	20	30

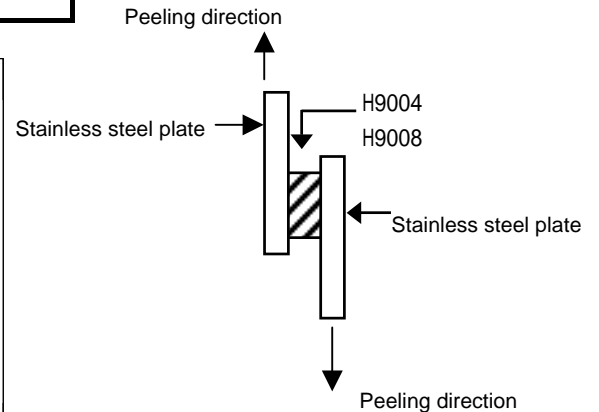
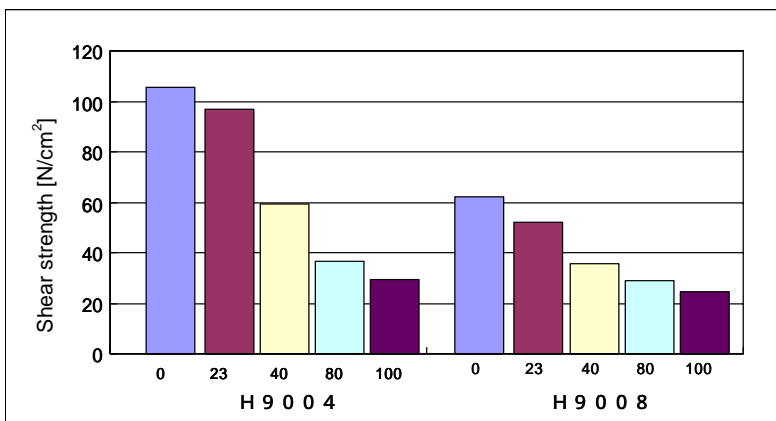
(Unit: N/25mm)  
 Backing: Stainless steel plate  
 Peeling speed: 300 mm/min:  
 Application condition:  
 1 pass back and forth with  
 5-kg roller at 23 ° measured adhesive strength  
 under various temperature after allowing it to set  
 30 minutes



Shear strength by temperature

Measurement temperature	H9004	H9008	
Shear strength [N/cm <sup>2</sup> ]	0	106	62
	23	97	52
	40	59	36
	80	37	29
	100	30	25

(Unit: N/cm<sup>2</sup>)  
 Backing: 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 ° measured adhesive strength  
 under various temperature  
 after allowing it to set 30 minutes



Time proof (Shear strength)

Evaluation	H9004	H9008
Initial (23 °C x 30minutes)	97	52
Ordinary state ( 23 °C x 24hours )	110	74
Heat resistance (80 °C x 250hours)	160	150
Water resistance (40 °C hot water x 250hours)	160	75
Thermal cycle resistance	95	76

(Unit: N/c m<sup>2</sup>)

Substrate: Stainless steel plate

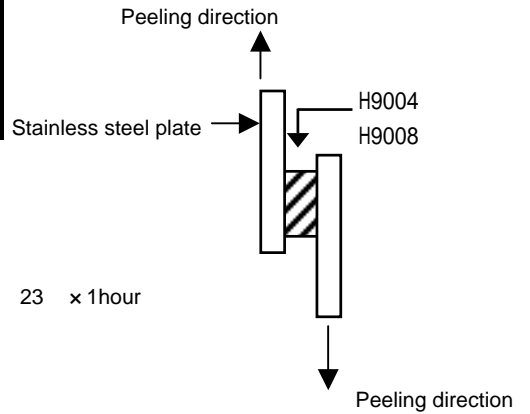
Peeling speed: 50 mm/min

Tape area: 10mm x 20 mm:

Application condition: 1 pass back and forth with 5-kg roller at 23 °C measured adhesive strength under various condition after allowing it to set 30 minutes

Measurement condition: 23 °C, 50%RH

Peeling speed: 50mm/min



← Stainless steel plate

Condition of thermal cycle

10 cycles 80 °C x 16hours 23 °C x 1hour 50 °C x 98%RH x 24hours 23 °C x 1hour  
- 30 °C x 8hours 23 °C x 1hour

Holding power

Measurement Temperature	H9004	H9008
80 °C amount of transformation	0.4	1.0

(Unit: mm/2hours)

Substrate: Stainless steel plate

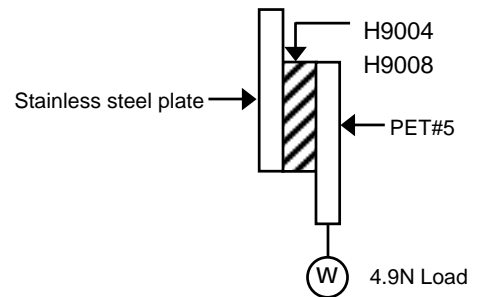
Backing: Polyester film #50

Tape area: 10mm x 20 mm

Load: 4.9N

Measurement temperature: 80 °C

Measured amount of transformation after 2hours



## Precautions when using

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Remove all oil, moisture and dirt from the surface of the substrate before applying.

The tape employs pressure-sensitive adhesive. Be sure to apply pressure with a roller or press when applying. Failure to do so could affect properties or appearance.

The tape may not adhere well to significantly uneven or distorted surfaces. Level off the surface as much as possible before applying.

Because it is very thin, you should avoid applying large loads for at least several hours following application.

## Precautions when storing

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Be sure to keep the tape in its box when not using.

Keep in a cool dark place not exposed to direct sunlight.

## Safety precautions



### Warning

Make sure the product is suitable for the application (objective and conditions) before attempting to use. The tape may come off depending on the substrate or conditions under which it is applied.

Use in combination with another method of joining if there is possibility of an accident.

Published in August 2005

**The data provided herein are not guaranteed values, but rather measurement values given as an example. Nitto Denko does not guarantee that the tape can be used for the example applications provided herein. You should make sure the tape is suitable for the substrate by applying to some of the material prior to using for practical application. This document is the property of Nitto Denko Corp. This document may not be copied or transferred without the permission of Nitto Denko Corp. If you have any questions concerning the content of this document, please contact the person in charge of publication.**

- For inquiries, contact the Customer Center of Bonding & Joining Products DIV. +at 81-532-41-8400

# NITTO DENKO CORPORATION