

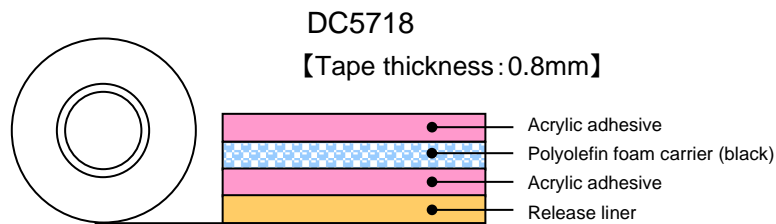
Double coated adhesive tape

# DC5718

## Outline

DC5718 is made by bonding a flexible foam base material with an acrylic adhesive that adheres well to various substrates. It has good followability to the unevenness of the substrate and has excellent adhesion and waterproofness. It also adheres strongly to metals and plastics.

## Structure



## Features

- Excellent bonding to metals and plastics.
- Flexible and thinner foam is used as tape carrier.
- It has good followability, excellent adhesion and waterproofness.
- Halogen-free type. (Chloride compounds are not used for this product.)
- 10 restricted substances by RoHS are not contained.

## Application

- Fixing of plastic and metal for nameplate.
- For waterproofing of housing materials, home appliances, etc.

## Standards Size

Tape thickness (mm)	Widths (mm)	Length (m)
0.8	480, 960	20, 50

For more information, please contact us.

DC5718 10-P-0497\_E (1/6)

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**Properties**

● 180° peeling adhesion by substrate

Substrates	DC5718
Stainless steel plate	29.5
ABS plate	20.2
Acrylic plate	30.5
Polycarbonate plate	30.0
Polypropylene plate	11.8
Aluminum plate	28.7
Iron plate	26.5
Glass plate	30.7
Plywood plate	12.9

(Unit: N/20mm)

Backing: PET#25

Pressure application conditions:

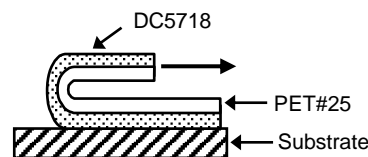
1 pass back and forth with 2kg roller

Aging condition: 23°C/50%RH x 30min

Peeling speed: 300mm/min

Peeling angle: 180°

Measurement temperature: 23°C/50%RH



● 180° peeling adhesion by temperature

Temperature	DC5718
-10°C	17.8
0°C	25.1
10°C	28.6
23°C	29.5
40°C	28.5
60°C	25.7
80°C	18.4

(Unit: N/20mm)

Substrate: Stainless steel plate

Backing: PET#25

Pressure application conditions:

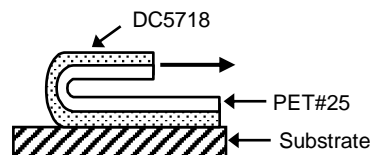
1 pass back and forth with 2kg roller

Aging condition: measurement temp. x 30min

Peeling speed: 300mm/min

Peeling angle: 180°

Measurement temperature: -10°C, 0°C, 10°C, 23°C, 40°C, 60°C, 80°C



DC5718 10-P-0497\_E (2/6)

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**Properties**

● Holding power

Temperature	DC5718
40°C	1.2
60°C	1.8

(Unit: mm/hr)

Substrate: Phenolic resin

Backing: PET#25

Pressure application conditions:

1 pass back and forth with a 5kg roller

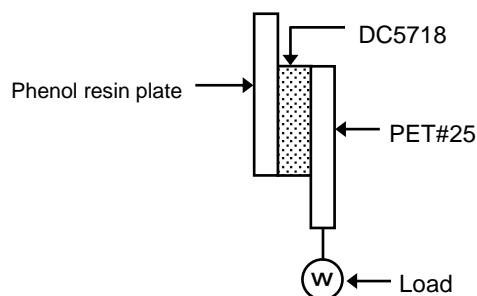
Applying conditions: measurement Temp x 30min

Measurement temperature: 40°C and 80°C

Laminated area: 20mm x 10mm

Load: 4.9N (500g)

Loading time: 1 hour



● Adhesion(180° peel) after application (increase)

Temperature	Time	DC5718
23°C	0.5 hrs	29.5
	4 hrs	34.2
	12 hrs	35.7
	24 hrs	36.4
	48 hrs	37.0
	72 hrs	37.5

(Unit: N/20mm)

Substrate: Stainless steel plate

Backing: PET#25

Pressure application conditions:

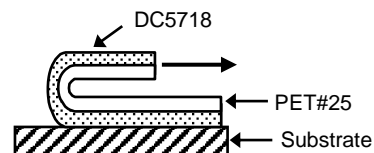
1 pass back and forth with 2kg roller

Aging condition: 23°C/50%RH

Peeling speed: 300mm/min

Peeling angle: 180°

Measurement temperature: 23°C/50%RH



DC5718 10-P-0497\_E (3/6)

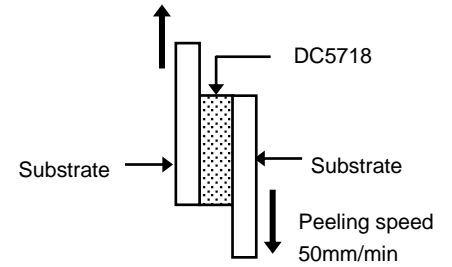
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**Properties**

● Shear strength for each substrate

Temperature	Substrate	DC5718
23°C	Stainless steel plate	450
	Acrylic plate	450
	Polycarbonate plate	460
	ABS plate	400
	PET plate	430
	Polypropylene plate	390
	Glass plate	450

(Unit: N/20mm x 20mm)  
Tape area: 20mm x 20mm  
Pressure application conditions:  
1 pass back and forth with a 5kg roller  
Aging condition: 23°C/50%RH x 30min  
Peeling speed: 50mm/min  
Measurement temperature: 23°C/50%RH

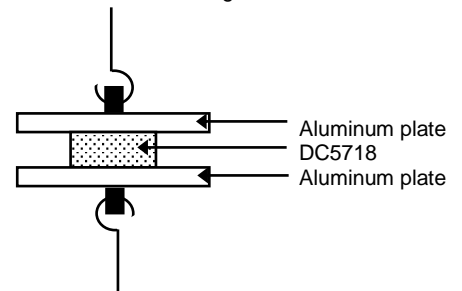


● Vertical break strength

Temperature	DC5718
23°C	206

(Unit: N/20mm x 20mm)  
Substrate: Aluminum plate/Aluminum plate  
Tape area: 20mm x 20mm  
Pressure application conditions: 5kg roller x 10sec  
Peeling speed: 50mm/min  
Measurement temperature: 23°C/50%RH  
Measurement method:

A specimen is prepared and shear strength is measured after allowing it to set 30 minutes.



DC5718 10-P-0497\_E (4/6)

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**Properties**

● Adhesion(180° peel) (change after application)

Temperature	Time	DC5718
23°C	1 day	36.4
	30 days	38.0
40°C/92%RH	1 day	42.5
	30 days	42.7
50°C	1 day	35.0
	30 days	36.5
70°C	1 day	32.5
	30 days	33.7

(Unit: N/20mm)

Substrate: Stainless steel plate

Backing: PET#25

Pressure application conditions:

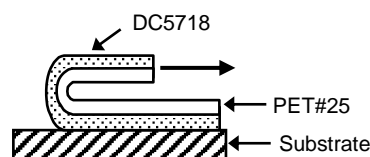
1 pass back and forth with 2kg roller at 23°C/50%RH

Aging condition: See left table

Peeling speed: 300mm/min

Peeling angle: 180°

Measurement temperature: 23°C/50%RH



● Shear strength (change after application)

Temperature	Time	DC5718
23°C	1 day	470
	30 days	490
40°C/92%RH	1 day	460
	30 days	480
50°C	1 day	430
	30 days	445
70°C	1 day	345
	30 days	370
40°C hot water	1 day	470
	30 days	435

(Unit: N/20mm x 20mm)

Substrate: Acrylic plate / Acrylic plate

Tape area: 20mm x 20mm

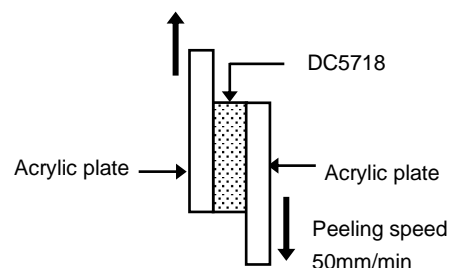
Pressure application conditions:

1 pass back and forth with 5kg roller at 23°C/50%RH

Aging condition: See left table

Peeling speed: 50mm/min

Measurement condition: 23°C/50%RH



DC5718 10-P-0497\_E (5/6)

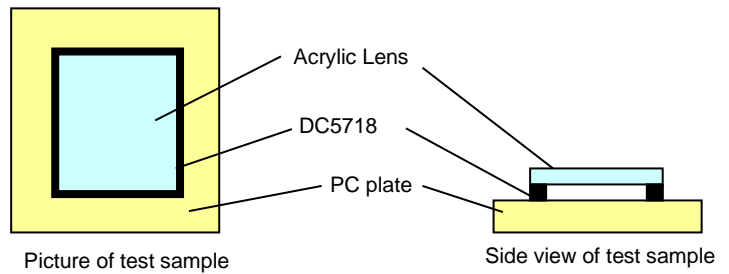
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**Properties**

- Water proof test (based on IPX7, JIS code C0920, IEC code 60529)

	<b>DC5718</b>
Waterproof test	IPX7 level

Lens size: 40 x 60mm  
 Tape size: 40 x 60mm (3mm width window shape)  
 Application condition:  
 1 pass back and forth with a 2kg roller  
 Applying temperature: 23 degree C/50%RH  
 Aging condition: 23 degree C/50%RHX30min.  
 Test condition:  
 Based on IPX7 (1m water bath x 30min dipping)  
 Water temperature: 23 degree C




**Precautions when using**

- 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**

- 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**

 <p style="margin: 0;"><b>WARNING</b></p>
<ul style="list-style-type: none"> <li>● 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 to which it is applied or conditions under which it is applied.</li> <li>● Use in combination with another method of joining if there is possibility of an accident.</li> </ul>

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DC5718 10-P-0497\_E (6/6)

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