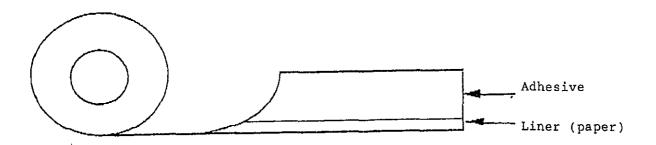
# ULTRASTRONG DOUBLE-COATED ADHESIVE TAPE HJ-9210

## 1. OUTLINE

The ultrastrong double-coated adhesive tape HJ-9210 is colorless transparent thick double-coated adhesive tape having especially high adhesive strength, heat resistance and holding ability.

### 2. CONSTRUCTION



## 3. FEATURES

- 3.1 Excellent initial adhesivity
- 3.2 High adhesive strength
- 3.3 Excellent holding ability
- 3.4 High heat resistance
- 3.5 Excellent transparency

# 4. USES

- 4.1 Joining of metal panels
- 4.2 Fixing of parts

# 5. STANDARD SIZE

Thickness (mm)	Width (mm)	Length (m)
1.1	20	20

Nitto can supply the tapes of other sizes (width and length) not shown in the table above. Please contact Nitto.

# 6. PROPERTIES

# 6.1 General Properties

Table 1 General Properties

Item	Ta	pe HJ-9210
Thickness (mm) Backing Color		1.1 Backing-less Colorless transparent
S-S characteristics	Breaking strength (kgf/cm <sup>2</sup> ) Elongation (%)	55 1250

# 6.2 Adhesion Properties

Table 2 Adhesion Properties

Item	Tape	HJ-9210
Shear adhesive strength (kgf/cm²) (23°C)	Stainless steel plate Aluminum plate Acryl plate ABS plate Polystyrene Polypropyrene	11 11 12 11 10 6
180° peeling adhesive strength (gf/20 mm) (23°C)	Stainless steel plate Aluminum plate Acryl plate ABS plate Polystyrene Polypropyrene PVC coated steel plate Glass Veneer board	3800 3500 3900 2000 3400 1200 3000 5100 800

# 6.3 Temperature Dependence

Table 3 Shear Adhesive Strength (kgf/cm<sup>2</sup>)

Test Temperature (°C)	HJ-9210
-10	47
23 100	11 4
150	2

# 6.4 Holding Ability

Table 4 Holding Ability

Test Temperature (°C)	HJ-9210
80°C x 1,000 min	Excellent
150°C x 30 min	Excellent

### 7. CARES WHEN USING

- 7.1 Before applying the tape, thoroughly clean the surface of substrate, removing oil, moisture, and foreign substances if any.
- 7.2 The adhesive of this tape is pressure-sensitive adhesive. After applying the tape sufficiently press it with roller or press.
- 7.3 Smooth the rough and coarse surface to get the smoothest possible surface.
- 7.4 Higher adhesive strength is attained after it is left untouched for a while after it is applied. Protect the applied tape from any undue force for several hours after it is applied.

#### 8. CARES WHEN STORING

- 8.1 To store the tape, be sure to put it into a storing case.
- 8.2 Store the tape in dark cool place where direct sunlight does not affect.

#### 9. OTHERS

Data shown in this data sheet are not used for any specification purposes.

# TESTING METHOD

### S-S CHARACTERISTICS

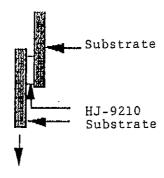
Prepare the specimen by punching with dumbbell No.2. Test at  $23\,^{\circ}\text{C}$ .

Tape width: Chuck-to-chuck distance: 10 mm 20 mm

Stretching speed:

300 mm/min

# SHEAR ADHESIVE STRENGTH



Bond two substrates at 23°C, and hold them for 72 hours. Test at  $23^{\circ}\text{C}$ .

Tape area:

25 x 25 mm<sup>2</sup> 50 mm/min

Stretching speed: Pressing:

Once to-and-fro rolling with 5 kg

roller

# 180° PEELING ADHESIVE STRENGTH



Test at  $23^{\circ}\text{C}$  according to JIS Z 0237.

Stretching speed: 300 mm/min

PET (25 µm) lining

### TEMPERATURE DEPENDENCE

Bond two substrates at  $23^{\circ}\text{C}$ , and then hold them for 72 hours. After that, hold them for one hour at specified temperatures, and then determine the shear adhesive strength at specified temperatures.

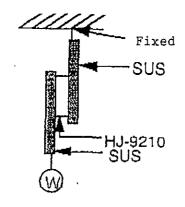
Substrates: Aluminum/Aluminum

Tape area: 25 x 25 mm<sup>2</sup> Stretching speed: 50 mm/min

Pressing: Once to-and-fro rolling with 5 kg

roller

### HOLDING ABILITY



Bond two substrates at 23°C, and then hold them for 72 hours. After that, hold them for 30 minutes at specified temperatures, and then start the test.

Substrates: Aluminum/Aluminum

Tape area: 25 x 25 mm<sup>2</sup>
Load: 1,000 g

Pressing: Once to-and-fro rolling with 5 kg roller