



# NITTO DENKO

## PRODUCT INFORMATION

Ref. No.

### NITTO

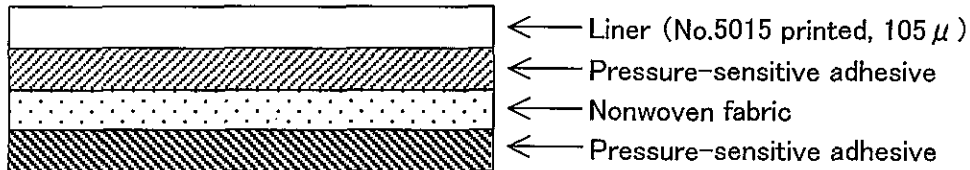
#### TECHNICAL DATA SHEET

#### DOUBLE-COATED ADHESIVE TAPE NO.5015 FOR INDUSTRIAL USE

#### 1. Outline

The Nitto's double-coated adhesive tape No.5015 for industrial use is a flexible nonwoven fabric tape impregnated with Nitto's original strong pressure-sensitive adhesive. It ensures reliable and powerful bonding of metals and plastics. It has extremely high repulsion resistance.

#### 2. Construction



#### 3. Standard sizes

Thickness (mm)	Width (mm)	Length (m)
0.12	3 to 1,200	50

#### 4. Features

- (1) Wide range of application  
This tape is applicable to various materials, such as metals and plastics, affording excellent and stable adhesion.
- (2) Wide range of working temperature  
The tape ensures excellent adhesion in the wide range of temperature, from low to high.
- (3) High repulsion resistance



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## 5. Properties

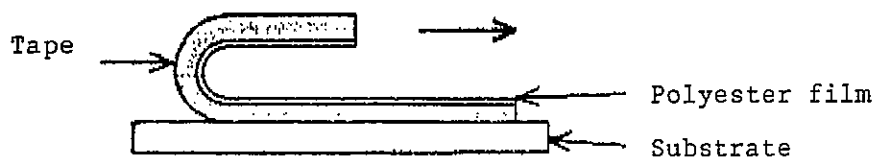
### 5.1 180°-peeling adhesion to various substrates

Item	Tape	No. 5015
180°-peeling adhesion to various substrates (g/20 mm)	Stainless steel	1420
	Aluminum	1540
	PP	1250
	PC	1380
	ABS	1350
	PVC	1630
	PSt	1390
	POM	1020

#### • Testing method

Apply a tape 20 mm wide to specific substrate by rolling once a 2 kg roller to and fro, and after holding it for 30 minutes test it by the 180°-peeling testing method.

Contact bonding testing temperature: 23°C  
Tension speed: 300 mm/min



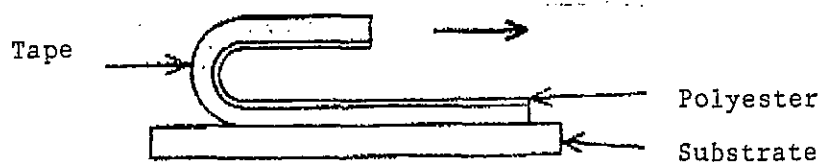
## 5.2 180°-peeling adhesion at various temperatures

Item	Tape	No. 5015	
180°-peeling adhesion at various temperatures (g/20 mm)	Stainless steel	0°C	2020
		23°C	1420
		40°C	1250
		60°C	1230
		80°C	1050
	ABS	0°C	1940
		23°C	1350
		40°C	1220
		60°C	1120
		80°C	1150
	PP	0°C	1320
		23°C	1250
		40°C	1150
		60°C	1300
		80°C	1100

### • Testing method

Apply a tape to specific substrate by rolling once a 2 kg roller to and fro, and after holding it for 30 minutes at specific temperatures, test it by the 180°-peeling method.

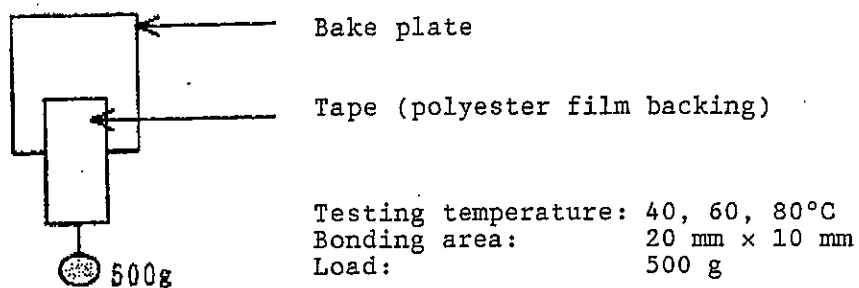
Contact bonding temperature: 23°C  
Tension speed: 300 mm/min



### 5.3 Heat creep resistance test

Item	Tape	No. 5015
Heat creep resistance test (mm/hr.)	40°C	0.09
	60°C	0.20
	80°C	0.28

• Testing method



#### 5.4 Constant load disbondment test

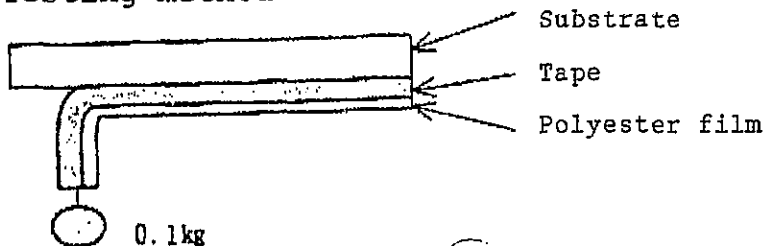
23°C × 65%RH

Item	Tape	No. 5015
Constant load disbondment test (mm/hr.)	ABS	<1
	PP	<1
	PSt	<1

60°C

Item	Tape	No. 5015
Constant load disbondment test (mm/hr.)	ABS	4.3
	PP	5.2
	PSt	4.5

#### • Testing method



Apply a tape 20 mm wide to specific substrate by rolling once a 2 kg roll to and fro, and after holding it for 24 hrs., age it at specific temperature for 2 hrs., and determine the tape disbondment distance after the lapse of one hour under the load of 0.1 kg.

### 5.5 Repulsion test

Item	Tape	No. 5015
Repulsion test (mm/72 hrs.)	ABS	<1
	PP	<1
	PSt	<1

#### • Testing method

Apply a tape to the aluminum plate (20 mm × 180 mm), and then apply its another face to a specific material (substrate) (30 mm × 200 mm). Thus, the specimen is prepared. Bend the specimen as a 190 mm chord, hold it in the ambient of 70°C for 72 hrs., and determine the lift from the substrate.

