



# NITTO PRODUCT INFORMATION

## NITTO NO.532 DOUBLE COATED POLYESTER TAPE

—FOR STRONG ADHESION USES—

NITTO Double Coated Adhesive Tape No.532 has been developed for uses that demand strong adhesion. It adheres to plastics, metal and most other materials. Made from polyester film and coated with pressure-sensitive adhesive on both sides. The interliners attached to both sides facilitate slitting or punching jobs.

### 1. FEATURES

- 1) Easy punching and slitting.
- 2) Excellent adhesion to plastics, metal, wood, glass and most other materials.
- 3) Outstanding adhesion at low temperatures.
- 4) Superior weatherability. The adhesive does not deteriorate or come off during long lasting prolonged storage.
- 5) Great film strength, dimensional stability.

### 2. APPLICATIONS

#### 1) Electrical

For mounting name plates, instruction plates, graduated plates, wiring diagrams, etc.; for holding decorated plywood; for bonding moldings of rubber, vinyl, nylon, Tectoron, melamine, acrylic resin together, etc.; for laminating plastic films.

#### 2) Mechanical

For temporary holding of rivets, bolts, angle patts; as substitute for the magnet used in grinding light metal.

#### 3) Architectural

For holding decorated paper, plywood, or other building materials; for splicing cloth, plastic sheets, etc.

#### 4) Agricultural

For splicing and repair of agricultural vinyl films, cloths, etc.

#### 5) Other applications

For splicing paper, cloth, film rolls; for holding printing plates; for mounting display, toys, leather products, accessories, etc.



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**NOTES**

- a) When applying the tape, be sure to remove all moisture, oil and dirt from the surface to be taped, and press it on smoothly.
- b) Store the tape away from direct sunlight, at room-temperature.

N.B. Wrinkles and internal fluting produced during winding do not prevent use.

**3. SIZES & COLORS**

Tape thickness, mm (mil.)	Interliner thickness (2 sheets), mm (mil.)	width, mm (in.)	Length, m (yds.)	Color
0.06+0.01 (2.5+0.5)	0.21	460	50	transparent
0.08+0.01 (3.2+0.5)				black
0.11+0.01 (4.5+0.5)	(8)	(18)	(55)	

Also available in narrower widths on request.

**4. PROPERTIES**

**4.1 General Properties**

Test	No.532 (black), 0.08mm (3.2mil.) thickness	No.532 (transparent) 0.08mm (3.2mil.) thickness
Tensile Strength*, kg/25mm (lbs/in.w)	8.1 (17.8)	9 (19.8)
Elongation*, %	70	70
Adhesion**, g/25mm (oz/in.w) to	stainless steel plate	1,250 (44.1)
	phenol plate	1,562 (55.1)
	glass plate	1,375 (48.5)
	hardboard	1,000 (35.3)
	aluminum plate	1,437 (50.7)
	steel plate	1,250 (44.1)

\* By the ASTM-D-1000 method.

\*\* By the ASTM 180° peeling method.



4.2 Temperature-Adhesion Relationship

Unit: g/25mm (oz/in. w.)

Measuring temp., °C (°F)	No.532 (black), 0.08mm (3.2mil.) thickness	No.532 (transparent), 0.08mm (3.2mil.) thickness
-10 (14)	1,312 (46.3)	1,500 (52.9)
20 (68)	1,250 (44)	1,250 (44)
40 (104)	1,187 (41.9)	1,187 (41.9)

Tested by application at the above temperatures by the ASTM 180° peeling method.

4.3 Shear Adhesion

Unit: kg/25mm (lbs/in. w.)

Taped object	No.532 (black), 0.08mm (3.2mil.) thickness	No.532 (transparent), 0.08mm (3.2mil.) thickness
Kraft paper to kraft paper	19.3 (42.5)	20.6 (45.4)
Polyester film to polyester film	19.3 (42.5)	18.1 (39.9)
Polyester film to stainless steel	22.5 (49.6)	19.3 (42.5)
Polyester film to phenol plate	21.2 (46.8)	20.6 (45.4)

In each set, the two objects were mounted together with 12mm × 19mm (1/2" × 3/4") No.532 tape, and the strength required to break the tape was measured.

Pulling speed: 250mm/min. (10 in./min.)

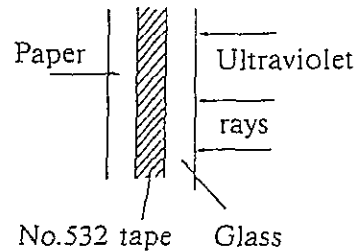
Measuring temp.: 20°C (68°F)



4.4 Deterioration Caused by Ultraviolet Rays (Weatherability).

Ultraviolet application period	No.532 (black), 0.08mm (3.2mil.) thickness	No.532 (transparent), 0.08mm (3.2mil.) thickness
80 hours (corresponding to 4.5 months in outdoors)	no change	no change
300 hours (corresponding to 16 months in outdoors)	almost no change	almost no change

No.532 tape, paper and glass plate were fastened together as shown in the accompanying figure, and ultraviolet rays were directed through the glass plate.



N. B. Figures shown are average of tests conducted on samples of various production runs by our laboratory and are not to be taken as maximum or minimum for specification purposes.

Technical data figures herein stated are average and should not be used for any specification purpose.

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