

Ref. No.

DC5011N - D03 - E 02/91

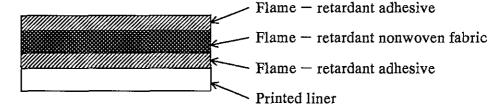
NITTO NO.5011N

FLAME - RETARDANT DOUBLE - COATED ADHESIVE TAPE

1. Outline

NITTO Flame – retardant Double – coated Adhesive Tape No.5011N is a UL - listed tape under the subject 94 VTM - 0 which is a highly improved version in the bonding properties to rough surfaces and laminating properties at low temperature.

2. Construction



3. Features

- 1) UL 94 listed and provides excellent flame retardant characteristics.
- 2) Has high initial adhesion and shows high adhesive strength to foam.
- 3) Provides excellent initial adhesion at low temperature.
- 4) The liner can be easily removed.

4. Standard Size

Thickness (mm)	Width (mm)	Length (m)
0.16	400	50



5. Properties

Tape Properties			No.5011N	Conventional Type
Thickness (mm)			0.16	0.16
	Stainless steel plate		1380	1150
180° Peel strength (g/20mm)	Polypropylene plate		1300	780
	ABS plate		1350	1050
	Polystyrene plate		1350	950
	F-2 foam		350	30
	USM foam		450	30
	UN - 2 foam		600	90
Low temperature adhesion to stainless steel (g/20mm)		_ 10°C	1500	*1500
		0℃	1700	*1400
		10℃	1450	1200
. • .		Stainless steel plate	2.0	3.5
Holding strength (mm/hr.) Stainless steel plate		Stainless steel plate	0.15	0.05
Flammability UL - 94 VTM - 0		Pass	Pass	

* Partially and slightly dried

Values listed above are typical and should not be used for any specification purposes.

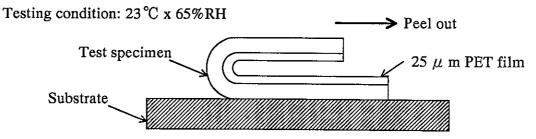
6. Test Method

6.1 Tape Thickness

The thickness shall be measured with a class 1 dial gauge specified in JIS B 7503 (0.01mm graduations).

6.2 180° Peel Strength

A test specimen of 20mm wide shall be applied to each substrate and after 30 min., the test shall be conducted at a pulling rate of 300 mm/min. To the plates, a 2kg roller shall be applied once in each direction and the foam used each of which is flame — retardant shall be laminated at 50% compression ratio.



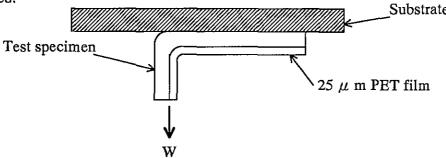
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6.3 Adhesive Strength at Low Temperature

The test shall be conducted at each temperature by the method mentioned in 6.2.

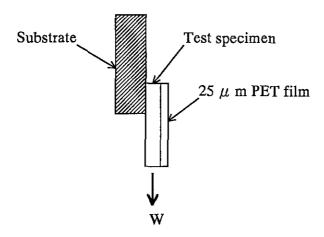
6.4 Constant Load Peel Test

A test specimen of 15mm wide shall be laminated to the substrate by applying a 2kg roller once in each direction. After 30min., the test specimen shall be loaded with a weight of 45g and the deviation after the lapse of 24 hours shall be measured.



6.5 Holding Strength

A test specimen shall be applied to the stainless steel plate with a bond area of $10\text{mm} \times 20\text{mm}$, then, loaded with a weight of 200g. The deviation after the lapse of 1 hour shall be tested in the atmosphere at $40\,^{\circ}\text{C}$.



6.6 Flammability Test

In accordance with UL - 94 VTM - 0.