NITTO DENKO
PRODUCT INFORMATION

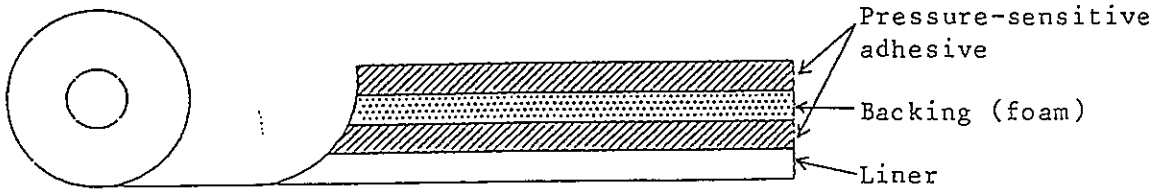
Ref. No.

NITTO DOUBLE COATED TAPES No.5711, No.5710, No.5713

1. Features

1) Have excellent holding properties, repulsion resistance and adhesion, so provide stable mounting capability.
2) Show excellent weatherability, oil and heat resistance.
3) Absorb irregularities on the substrate due to their flexible foam backings.
4) Widely used for mounting exterior automotive trims e.g. side mouldings.

2. Construction



3. General Properties

Properties	Unit	No.5711	No.5710	No.5713
Thickness	mm	1.30	0.90	0.33
Backing	-	Special polyethylene foam		
Adhesive	-	Acrylic		
Peel strength to painted panel (20°C x 24hrs.)	kg/25mm	1.5	1.8	1.4
Shear strength to painted panel (20°C x 24hrs.)	kg/cm^2	8.3	7.6	9.0
Holding strength (500g/10x20mm^2) Deviation at 40°C	mm	0.1	0.1	0.2
80°C	mm	0.4	0.4	0.5
Bond area (contour: 0.05mm) at 20°C	%	98	97	95
5°C	%	90	65	52
Cold impact test (-30°C, Slam type)	-	Good	Good	Good
Weatherability 1000hrs. (weatherometer)	-	Good	Good	Good
Punchability	-	Good	Good	Good
Application workability	-	Good	Good	Good

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

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4. Application of No.5713

1) Mounting automotive emblems

2) Mounting nameplates

3) Sealing precision machines

5. Standard Sizes of No.5713

Table 1

Thickness (mm)	Width (mm)	Length (m)
0.33	50, 100, 400	10, 20

6. Properties of No.5713

1) Adhesion (180° Peel Strength)

Table 2

Substrate	Adhesion (g/25mm)
Stainless steel	1200
Aluminum	1400
Melamine-painted steel	1300
ABS	1500
Chrome-plated ABS	1200
Acrylic	1300
Polycarbonate	1000

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

7. Comparable Test Data

The test data obtained by testing in accordance with TOYOTA's Spec. TSK 5705 are shown in Tables 3 and 4 on the following page.

Table 3

Properties \ Tape		NITTO No.5713X	Competitive Item
Peel strength (kg/25mm)			
Initial	Painted panel	1.3	1.3
	Chrome-plated	0.7	0.6
Normal	Painted panel	1.6	2.1
	Chrome-plated	1.6	2.2
At high temperature	Painted panel	0.5	0.4
	Chrome-plated	0.9	0.9
Deteriorated by lukewarm water	Painted panel	2.4	1.5
	Chrome-plated	3.2	1.6
Deteriorated by heat	Painted panel	4.4	3.3
	Chrome-plated	3.8	3.1
Shear strength (kg/cm^2)			
Painted plate/Chrome-plated			
Initial		8.0	5.6
Normal		10.2	7.4
At high temperature		3.0	3.6
Deteriorated by lukewarm water		10.3	7.4
Deteriorated by heat		18.7	12.7
Gasoline immersion		8.3	6.0
Wax remover immersion		8.0	5.0

Table 4

Properties \ Tape		NITTO No.5713X	Competitive Item
Thickness (mm)		0.33	0.36
Hardness (HS)	Normal	36	2
	Heat deterioration	34	3
Tensile strength	Normal	37.5	3.5
(kg/cm^2)	Heat deterioration	56.5	4.0
Elongation (%)	Normal	730	765
	Heat deterioration	565	675
Paint Contamination (sunshine weatherometer)		None	None
Low temperature properties			
Normal	Shear strength (kg/cm^2)	17.1	35.1
	Change (mm)	1.6	2.6
Deteriorated by lukewarm water			
	Shear strength (kg/cm^2)	15.5	32.0
	Change (mm)	1.1	1.3
Compression load (kg)		34	4
Cleavage at low temperature (kg/25x25mm)	Chrome-plated	22.0	37.0
Wet area (%)	at -5°C	44.0	8.0
(0.05mm contour)	5°C	42.0	11.0
(bonded by a 5kg roller)	20°C	97.0	54.0
Cold impact test (-30°C, Slam type)		100 times OK	Fell down after 14 times