

Ref. No. 5302A-D03-E 02'90

NITTO DOUBLE-COATED ADHESIVE TAPE No.5302A FOR BONDING SILICONE RUBBER

1. Outline

NITTO No.5302A is a double-coated adhesive tape specifically developed for bonding silicone rubber which was conventionally difficult to bond. Its liners can be easily removed.

1. Features

- (1) Face A (Silicone type adhesive)
 - * Surely bonds to silicone rubber.
 - * Bondable even at low temperature (-10°C).
 - * Has excellent electrical insulating properties.
- (2) Face B (Acrylic type adhesive)
 - * Shows high bonding strength to almost all materials except for non-polar materials e.g. silicone rubber and polyethylene.
 - * Provides excellent initial tack.

2. Construction

3. Standard Size

Thickness (mm)	Width (mm)	Length (m)
0.085	100, 500	20



5. Properties

5.1 General Properties

Properties		Values	Test Method
Thickness (mm)			
Tape _		0.085	By means
Adhesive	Face A	0.03	of a dial
	Face B	0.03	gauge
Liner	Face A	0.05	
·	Face B	0.15	
Adhesion (g/20mm)		
to stainless	Face A	980	
steel	Face B	1000	JIS Z 1528
to silicone		,	Z 0237
rubber	Face A	300	
Liner peel stren	gth		
(g/50mm)	Face A	20	*1
	Face B	10	
Tensile strength	(kg/cm)	6.9	JIS C 2338
			JIS C 2107
Elongation (%)		70	
	· · · · · · · · · · · · · · · · · · ·		1
Breakdown voltage	e (kv)	6.9	JIS C 2110
Withstand voltage (kv)		4.0	

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

Note: Face A = Transparent liner (polyester film) side (silicone type adhesive face)

*1: The liner is peeled by Schopper pendulum type tensile tester at a rate of 300 mm/min.

Testing condition: 25 ± 3 °C, 50 ± 20 %RH.

5.2. Adhesion to Silicone Rubber vs. Application Temperature Relations

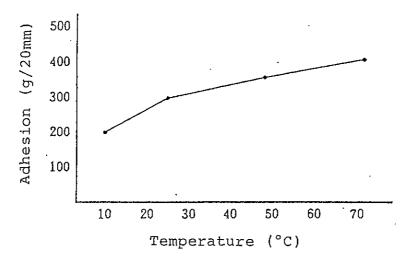


Fig. 1 Adhesion to Silicone Rubber vs. Application Temperature Relations

Test specimen: 20mm wide x 140mm long

Test method: A thermosetting type silicone rubber (70° hardness) is applied to the face of the test specimen where
the transparent liner is peeled, at a temperature as
specified. Immediately, the assembled sample is moved
into an atmosphere of 25°C, then after the duration of
20min., the adhesion shall be measured in accordance
with JIS Z 0237. The white liner of the test specimen
is replaced by 25 µm polyester film before testing.

5.3. Adhesion to Silicone Rubber vs. Period after Application Relations

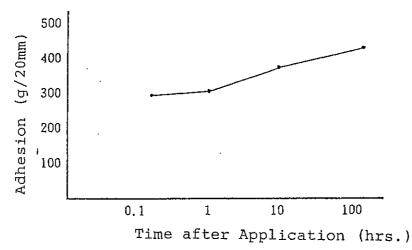


Fig. 2 Adhesion to Silicone Rubber vs. Period after Application Relations

Test method: the same as mentioned in 5.2. 25°C, 50%RH.

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