

Controlled Documents

## Laboratory Report (R&D Center - 3M China)

Inspection standards: HTNT-TSP-007

### **Product Description**

EONBON Anti Slip Tape

### **Test content**

Comparison of adhesion of abrasive tape before/after ageing.

### **Test preparation**

Test environment: temperature  $23\pm 2^{\circ}\text{C}$ , humidity  $65\pm 5\%$

Sample: One day in the oven at  $40^{\circ}\text{C}$ , cut lengthwise to a width of 25 mm and a length of 170 mm

Bonded body: SUS304 steel plate

### **Testing steps**

A. With the peel-off paper removed from the test strip and the adhesive side down, apply light finger pressure to the clean test strip. Use a standard test roller to apply 3 presses in each direction at a speed of approximately 10mm/sec to bring the adhesive side into close contact with the test board surface.

B. After the test strip has been applied to the test board, leave it for 20 minutes.

C. Fix the test strip to the test board in a suitable position on the tensile testing

machine so that the peel angle is 180°. Set the fixture separation speed to 300 mm/min. and take at least 5 readings every 10 mm from the middle of the test strip.

Take an average of the readings.

## **Testing results**

	sample	Data1	Data2	Data3	Avg.	Unit
Adhesion	Anti Slip Tape	12.85	13.27	16.73	14.28	N

**\*\*Test results are based on customer requirements for customised products**

## **Test content**

Ageing test (rate of change of adhesion)

## **Test preparation**

Test Environment:

Test 1. 85°C/85%RH 25H

Test 2. Temperature 65°C/90%RH 5.5H / 25°C/80%RH 2.5H 2 cycles -10°C 2.5H

25°C/90%RH 3.5H

Test 3. 65°C/90%RH 5.5H 25°C 80%RH 2.5H 65°C/90%RH 5.5H 2 cycles 25°C

/80%RH 10.5H

Test 4. 80°C 1H/-20°C 1H 12 cycles

Test 5. Neutral salt spray (5% NaCl) 24H

Sample: One day in the oven at 40°C, cut lengthwise to a width of 25 mm and a length of 170 mm

Bonded body: SUS304 steel plate

## **Testing steps**

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B. After the test strip has been applied to the test board, leave it for 20 minutes.

C. Fix the test strip to the test board in a suitable position on the tensile testing machine so that the peel angle is 180°. Set the fixture separation speed to 300 mm/min. and take at least 5 readings every 10 mm from the middle of the test strip. Take an average of the readings.

D, the sample is placed in the above test environment after the end of the test to remove the test adhesion according to the room temperature adhesion test method, the two test adhesion difference and the room temperature force ratio is the tape adhesion rate of change of high and low temperature.

### **Testing results**

	sample	Data1	Data2	Data3	Avg.	Unit
Ageing	Anti Slip Tape	12.85	13.27	16.73	14.28	N

**\*\*Test results are based on customer requirements for customised products**