



Technical Data Sheet

Tape and Adhesive

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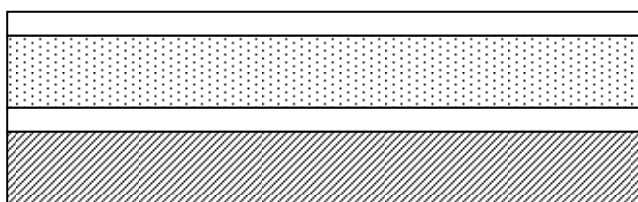
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Scotch Brand VHB™ Product Y-4914-015 (0.15mm), Y-4914-02 (0.20mm)

1. Product Description

VHB™ tapes are double coated acrylic foam with acrylic pressure sensitive adhesive on both side, and have excellent static shear, peel adhesion and resistance to solvents, UV light and elevated temperature. Y-4914-015 and Y-4914-02 are the thinner type of VHB™ compare to conventional type and are suitable for the application that is required thinner bonding thickness to reduce a space.

2. Construction



Acrylic adhesive
Acrylic foam
Acrylic adhesive
Paper liner

3. Advantages

1. Very thin
2. High sealing ability
3. High peel strength
4. Good resistance for spring back force

4. Physical property

Products No.		Y-4914-015	Y-4914-02
Color		White	
Thickness	VHB (mm)	0.15	0.20
	Paper liner (mm)	0.08	
Foam density (g/cm ³)		1.3	

Test Method

Thickness: Using thickness gauge with caliper foot of 5mm diameter (JIS S 0237)

Density: Cut tape specimen 1 x 3", measure thickness, determine the mass of the specimen. Calculate the density from volume and mass.

5. Adhesion property

	Y-4914-015	Y4914-02
90° Peel Adhesion (N/cm)	21	22
T-Peel Adhesion (N/cm)	17	18
Dynamic Shear Strength (N/cm ²)	235	230

Test Method

90°C Peel Adhesion:

Tape between stainless steel and anodized aluminum foil.

Roll down twice in each direction using 10kg steel roller.

72 hours dwell at room temperature.

Testing speed 300 mm/min.

T-Peel Adhesion:

Using anodized aluminum foil.

Roll down twice in each direction using 10kg steel roller.

72 hours dwell at room temperature.

Testing speed 300 mm/min.

Dynamic Shear Strength:

To stainless steel.

Roll down twice in each direction using 10kg steel roller.

3 hours dwell at 65degree Ce.

Testing speed 300 mm/min.

6. 90°C Peel Adhesion to each substrate

		Y4914-015	Y4914-02
90 degree peel adhesion (N/cm)	Stainless Steel (SUS 304 BA)	21	22
	Acrylic Plate	15	16
	ABS Plate	16	17
	Polycarbonate	14	15

7. Other information

Operating temperature range:

At less than -20°C, impact resistance performance decrease.

Degradation of adhesive may be caused for long range using under condition over 150°C.

Storage Condition:

Tape roll may change its appearance when it is exposed in high temperature and humidity for a long time.

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