

KES

Butyl Tape for D-5

KES B-L026

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1. Scope of Application

This standard specifies the thermohardening plastic sealer tape used to maintain the sealing of the clearance between parts. It is mainly applied to the cowl, dashload, and side frames which are generally called D-5.

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2. Material Symbol

The material symbol of D-5 sealer tape is defined as A-RB01.

3. Quality

3.1 General Condition

- (1) Physical appearance: It shall not contain moisture, impurities, etc.
- (2) Handling facility: It can be adhered to the panel, without difficulty.
- (3) Storage stability: No transition such as gelation, softening, hardening, and bubbling etc., shall be detected after exposing to direct sun light, for three months, packed in an airtight vessel on in normal packing.
- (4) Toxicity: The adhesive shall not contain any harmful materials as regulated by law and it shall not inflame the skin on contact.

3.2 Performance

The performance of the adhesives shall be as shown in Table 1.

4. General Conditions for Test

(1) Standard state of test room

In principle, the temperature and the relative humidity of the test room shall be maintained at $20 \pm 2^{\circ}\text{C}$ and $65 \pm 5\%$, respectively.

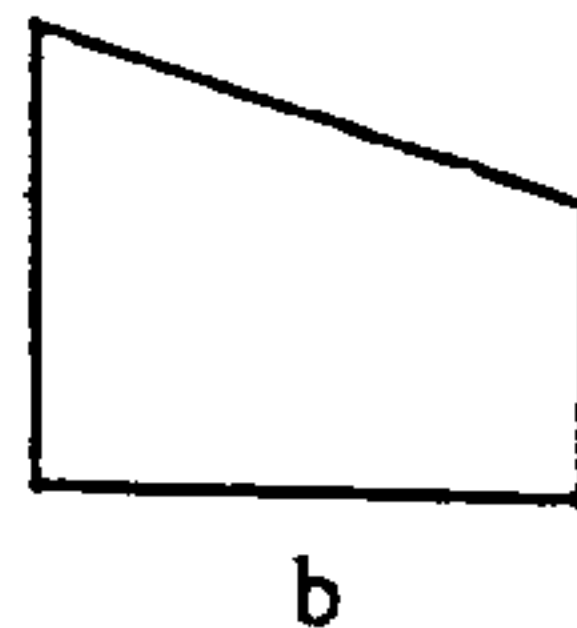
(2) Sampling

The necessary quantity of the sample is gathered from a lot which is recognized as having identical quality. The sample used in the test shall have no impurities or deformation.

(3) Paint coating steel plate

Use the electro painting steel plate.

Table 1. Quality

Number	Item		Condition	Quality	Testing method
				A-RB01	
1	Physical appearance		By naked eyes	No impurities no bubbles	5.1
2	Dimension (mm)	a		9.0-11.0	5.2
		b		4.5-5.5	
		c		1.8-2.2	
3	Specific weight		—	1 ± 0.15	5.3
4	Unvolatile component (%)		—	98 or more	5.4
5	Penetration		—	30 ± 4	5.5
6	Tensile strength (kg/cm2)		Extension velocity (500 ± 20mm/minutes)	0.9 or more	5.6
7	Elongation (%)			1500 or more	
8	Compression rate (%)		—	15-25	5.7
9	Recovery rate (%)			75 ± 5	
10	Thermal dipping properties		—	70 or more	5.8
11	Shear strength (kg/cm2)		Atmospheric temperature	1.0 or more	5.9
12	Exfoliation strength (kg/25mm)		Atmospheric temperature	1.8 or more	5.10
13	Thermal aging	Change in tensile strength(%)	70 ± 2°C, 70 Hrs	40 or less	5.11
14		Change in Elongation (%)		50 or less	
15		Change in shear strength (%)		30 or less	
16		Change in exfoliation strength (%)		60 or less	
17	Watertight		—	80 or more	5.12
18	Storage stability	State	40°C 72 Hrs	Should be good	5.13
		Change in penetration (%)		± 20	
19	Shear strength at low temperature		-30°C ± 3 Hrs	1.0 or more	5.14

5. Testing Method

5.1 Physical Appearance

The sample is adhered to a glass plate and the existence of bubbles and impurities are inspected by the naked eye.