KES

Two-Sided Adhesive Tape for Mold Side

KES B-L029

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1. Purpose

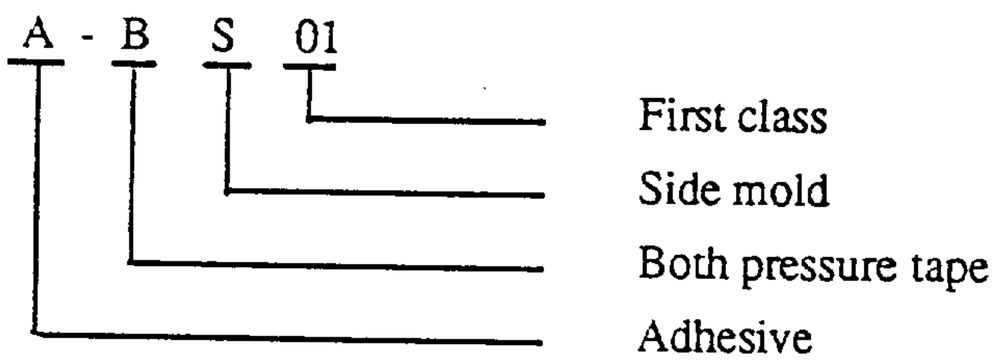
This standard aims at securing proper quality by standardizing specifications of two-sided adhesive tape for adhering the side mold used for decorating and protecting the physical appearance of automobiles.

2. Scope of Application

This standard specifies the quality and the testing methods of two-sided adhesive tape for adhering the side mold.

3. Material Symbol

The material symbol of the two-sided adhesive tape used for adhering the side mold, is defined as A-BS01.



4. Quality

The two-sided adhesive tape used for adhering the side mold shall have a good physical appearance without swelling or roughness. It shall be up to the standards an in Table 1, 2, 3, 4, and 5.

5. Property of the Tape

5.1 Thickness

The thickness of the tape is measured by a thickness or a dial gauge. the thickness of releasing film is not included.

5.2 Absorptivity

(1) The sample is cut into a piece in the dimensions of 25x75mm and the weight is measured after removing the releasing film.

(2) It is deposited in water at the atmospheric temperature for 22 hours. A light ring may be used to deposit the sample.

(3) After removing water droplets stuck to the surface, the weight is measured.

(4) Calculation

$$\text{Absorptivity} = \frac{\text{Weight after test - Weight before test}}{\text{Weight before test}} \times 100$$

5.3 Tensile Strength and Elongation

Shall conform to 6 of KS A 1107. (Testing methods of pressure sensitive adhesive tapes and sheets)

5.4 Removing Facility of Releasing Film

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(1) The releasing film is exfoliated from the tape and it is attached to a tension tester.
(2) The strength required to removed the releasing film is measured in accordance with the exfoliation strength testing method.
(3) The removed state of the releasing film and the exfoliation strength are reported.

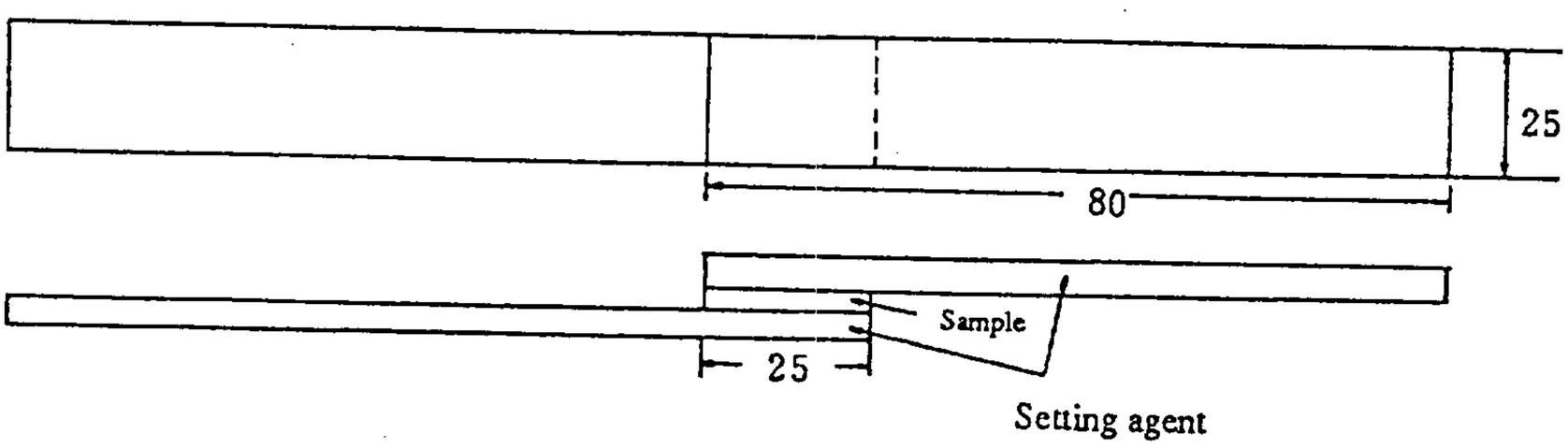
6. Adhesive Strength

6.1 Test Piece

(1) Setting agent is cut into a piece in the dimensions of 25mm x 80mm.
(2) The surface of the setting agent is washed by isopropyl alcohol.
(3) The sample is cut into a piece in the dimensions of 25mm x 25mm and is adhered to the setting agent as shown in figure 1.

Figure 1. Test piece for adhesive strength test

Unit: mm



(4) After adhering the tape, it is compressed for 30 minutes by a load of 10kg and is exposed to the atmospheric temperature for 24 hours.

6.2 Evaluation

The test piece is fixed to the tension tester and is loaded by extending the test piece at a velocity of 300mm/min, and the maximum load is recorded. The fractured condition of the test piece is reported. The applied load per unit area of the test piece (cm^2) is recorded as the tensile strength.

6.3 Initial Shear Strength

The test piece is made as in 6.1, and it is compressed for 30 seconds before exposing it to the atmospheric temperature for 30 minutes. The initial shear strength is measured as in 6.2.

6.4 State Shear Strength

The test piece is made as in 6.1 and the measurement of the shear strength shall conform to 6.2.

6.5 Maintenance Force

The test piece is made as in 6.1. One end of the test piece is fixed and 1kg of weight is applied to the other end. The slipped distance after 60 minutes is measured in mm.

6.6 Softening Point

The test piece is made as in 6.1. In a dry oven, maintained at 40°C, one end of the test piece is

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