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PERFECT INTERNATIONAL INSTRUMENT
 东莞宝大仪器有限公司
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1. DEFINITION

1.1 Thickness is the perpendicular distance between the opposite surfaces of a tape usually expressed in mils.

2. SIGNIFICANCE

2.1 The thickness is of value in controlling uniformity and providing design data, as well as being used to determine physical and electrical properties.

3. TEST SPECIMEN

3.1 The specimen shall be a minimum of 12 mm wide and shall be at least 280 mm long. It shall be free from wrinkles and creases.

4. EQUIPMENT

4.1 Thickness gauge capable of estimating the thickness to within 0.002 mm. See Figure 1.

4.2 The gauge shall have two plane faces, the smaller of which is circular and has a diameter of 8 to 16 mm. The faces shall be parallel to within 0.005 mm and constrained to move apart in an axis perpendicular to themselves.

4.3 When the specimen is clamped between the faces, it shall be under a steady pressure of 50 to 60 kPa (7.0 to 9.0 lb./square in.).

5. TEST METHOD

5.1 Place the specimen between the jaws of the micrometer, adhesive side up and lower the presser foot gently upon the surface of the tape at least, whenever possible, 6 mm from the edge of the tape. Record the reading of the dial to the nearest 0.002 mm or 2 microns one second after lowering the foot. Make three readings for each specimen. Average the readings for the thickness value of that specimen.

5.2 To measure double-coated tapes with liner, measure the thickness of the specimen with one liner in place as in 5.1. Mark the liner where readings are made. Remove the liner and repeat the measurements as in 5.1 on the liner in the marked positions. Average both sets of readings, subtract the smaller average from the larger average, and record the differences as the thickness.

6. REPORT

6.1 Report the average of the readings made in paragraph 5.1 as the thickness value to the nearest 0.001 mm.

Another method for measuring thickness of pressure sensitive tapes is...

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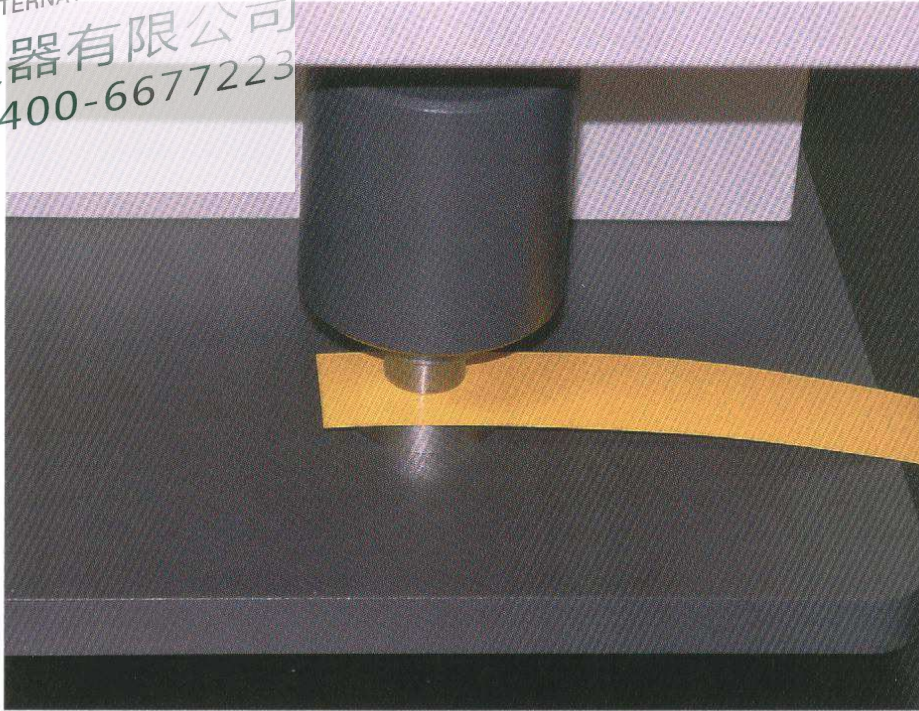


Figure 1. Tape sample being tested for thickness in micrometer.