

# TEST REQUIREMENTS



## FINAT Test Method No. 1 Peel adhesion test at 180° at a removal rate of 300 mm/min

FINAT is an association of European manufacturers and processors of self-adhesive products.

The FINAT Test Methods describe the exact testing conditions and specimen preparation procedures for the testing of adhesives for self-adhesive products.

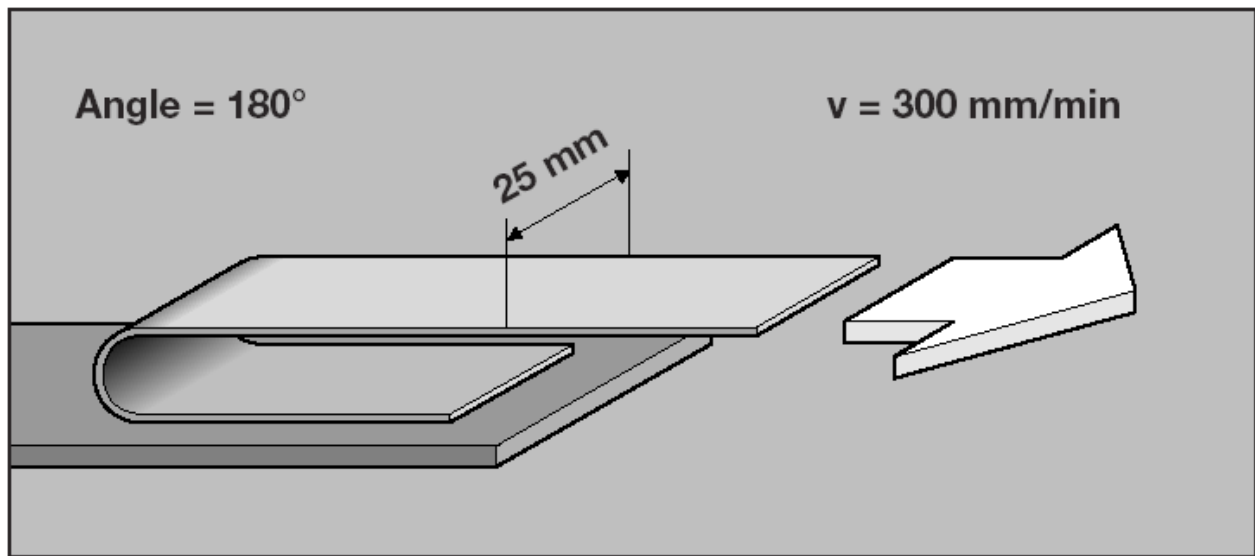
The FINAT Test Methods permit a direct comparison of test results.

### Application:

This test serves as a means of ascertaining the permanent or peel adhesion of a self-adhesive material.

### Definition:

Adhesion is ascertained by measuring the force required to remove a specimen of self-adhesive material from a test plate at a pull-off angle of 180°.



# TEST REQUIREMENTS



## FINAT Test Method No. 2 Peel adhesion test at 90° at a removal rate of 300 mm/min

### Application:

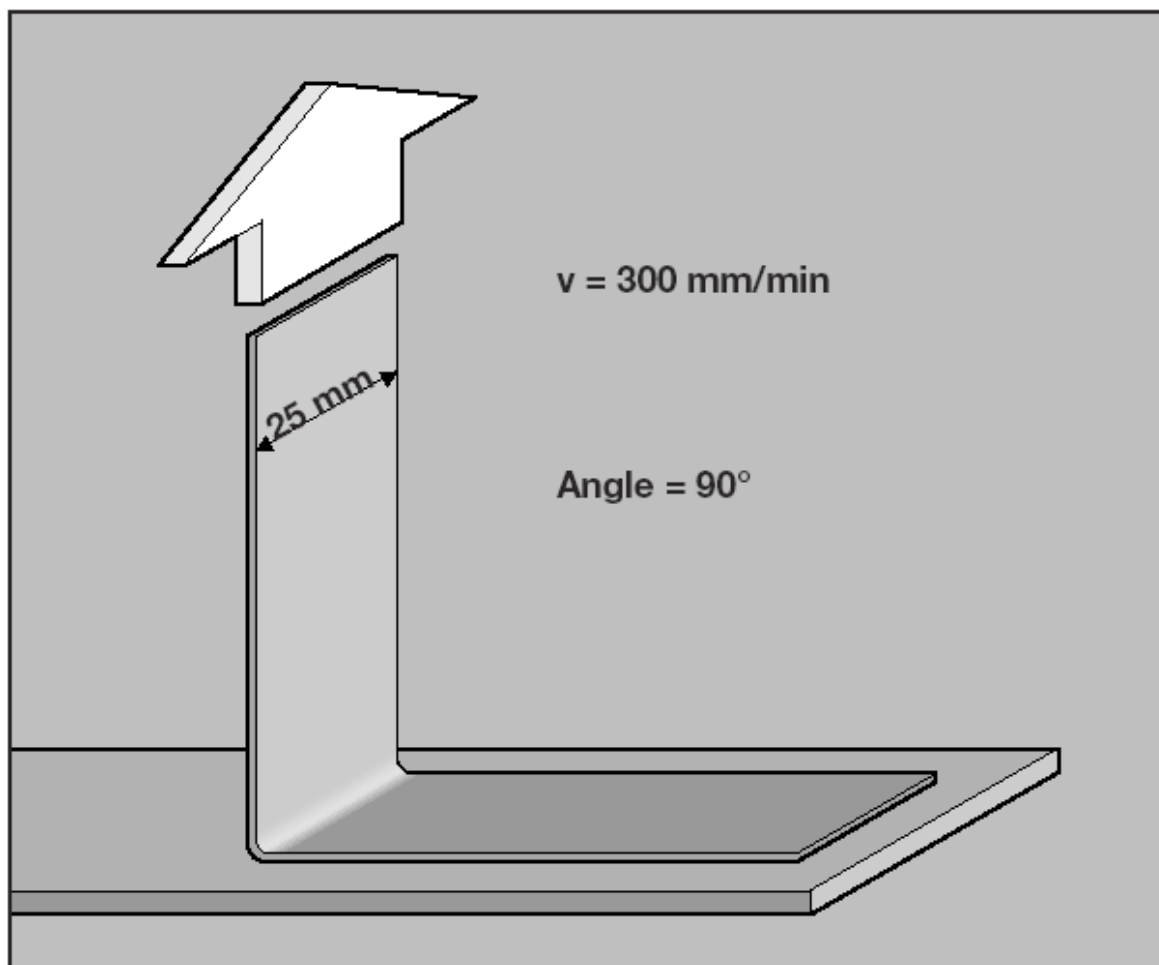
This method differs from Test Method No. 1 in that it primarily permits a comparison of the non-permanent adhesion of self-adhesive materials.

The measurements obtained are generally lower than those obtained at a pull-off angle of 180°.

This method can also be used for measuring the adhesive strength of materials which would otherwise tear during the test.

### Definition:

Adhesion is ascertained by measuring the force needed to remove a specimen of self-adhesive material from a test plate at a pull-off angle of 90°.



# TEST REQUIREMENTS



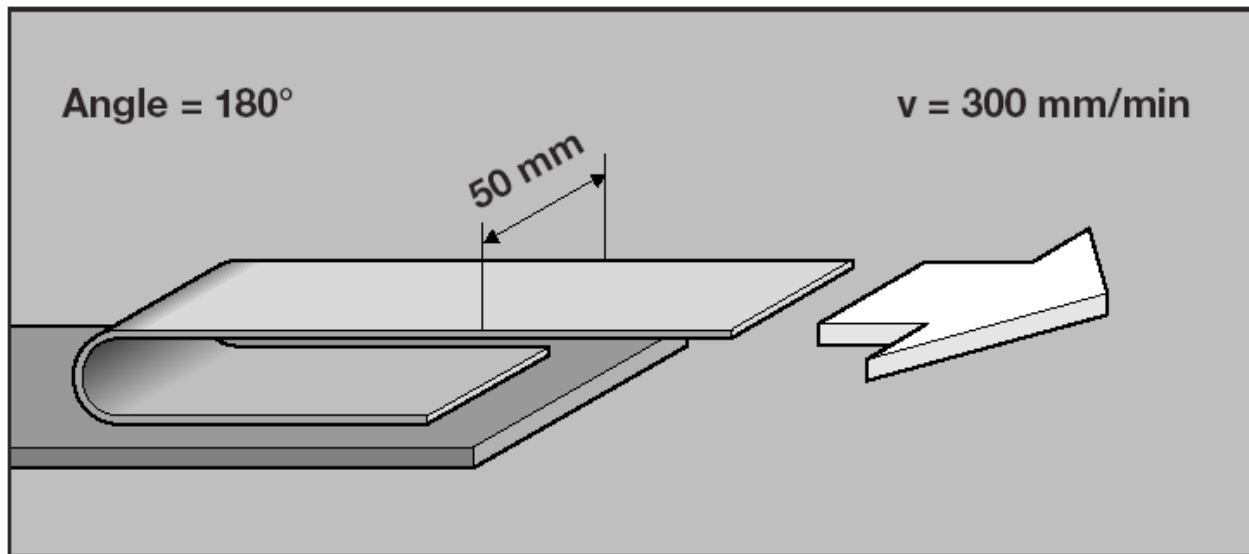
## FINAT Test Method No. 3 Release at slow removal rate

### Application:

This test method serves to determine the degree of ease with which a face material (print carrier) can be removed from its silicone backing paper. The obtained measurements permit a preliminary evaluation of the processing properties of the self-adhesive product (behaviour in high-speed labelling machines, matrix removal in the label press etc.).

### Definition:

Release is ascertained by measuring the force required to separate a self-adhesive material from its silicone backing paper at a pull-off angle of  $180^\circ$  and a speed of 300 mm/min.



# TEST REQUIREMENTS



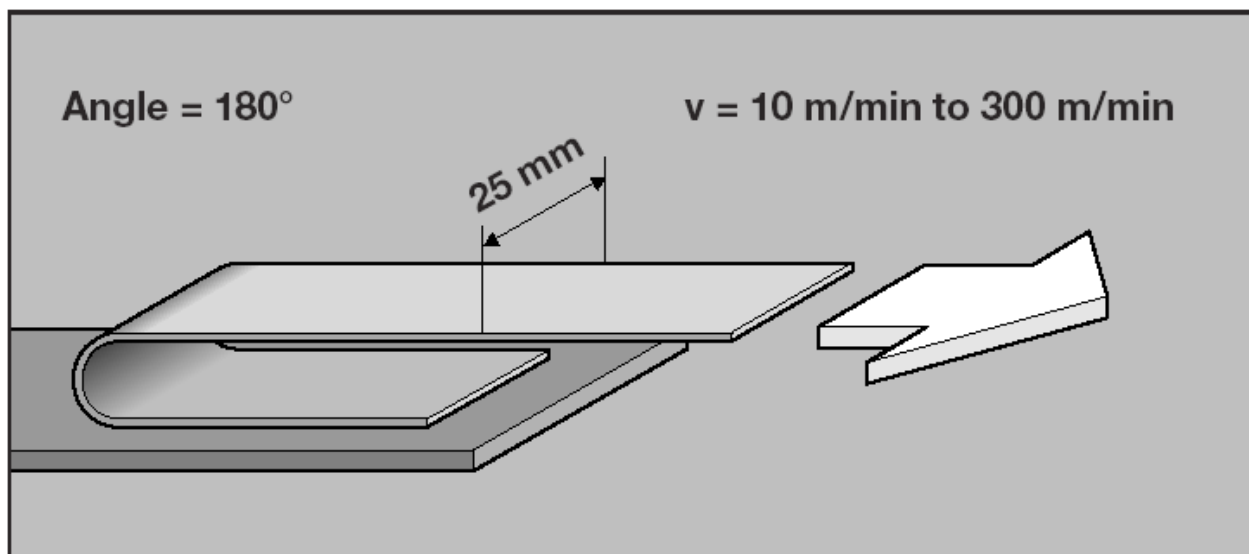
## FINAT Test Method No. 4 Release at fast removal rate

### Application:

This test method permits the evaluation of the release properties of a self-adhesive product when the face material (print carrier) is separated from the silicone backing paper at a speed equivalent to that of a label printing press (matrix removal) and an automatic labelling machine (label release).

### Definition:

Release at fast removal rate is ascertained by measuring the force needed to separate a self-adhesive material from its silicone backing paper at a pull-off angle of  $180^\circ$  and a speed of between 10 m/min and 300 m/min.



# TEST REQUIREMENTS



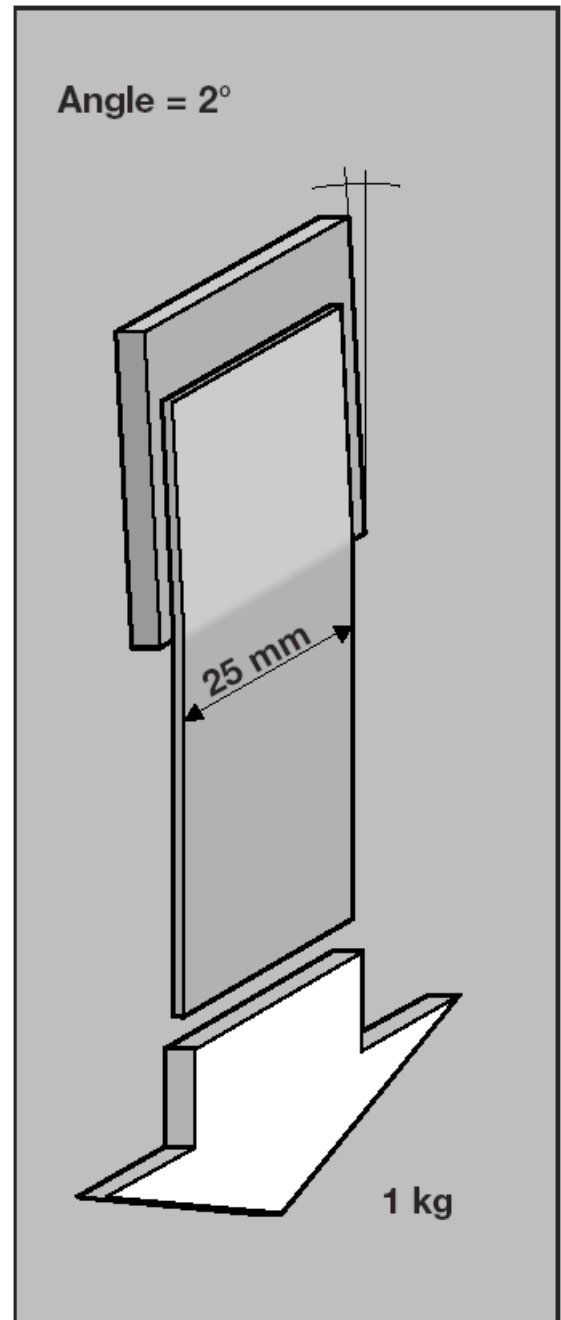
## FINAT Test Method No. 8 Shear resistance on a normal surface

### Application:

This test method serves to evaluate the resistance of an adhesive to a static load applied in the same plane as the face material (print carrier). The measurements obtained serve as failure criteria (shearing of adhesive or detachment of face material).

### Definition:

The (static) shear resistance of an adhesive is indicated by the time required for a self-adhesive material of a specified surface area to become detached from a normal surface under an applied load acting in the same plane as the surface.



# TEST REQUIREMENTS



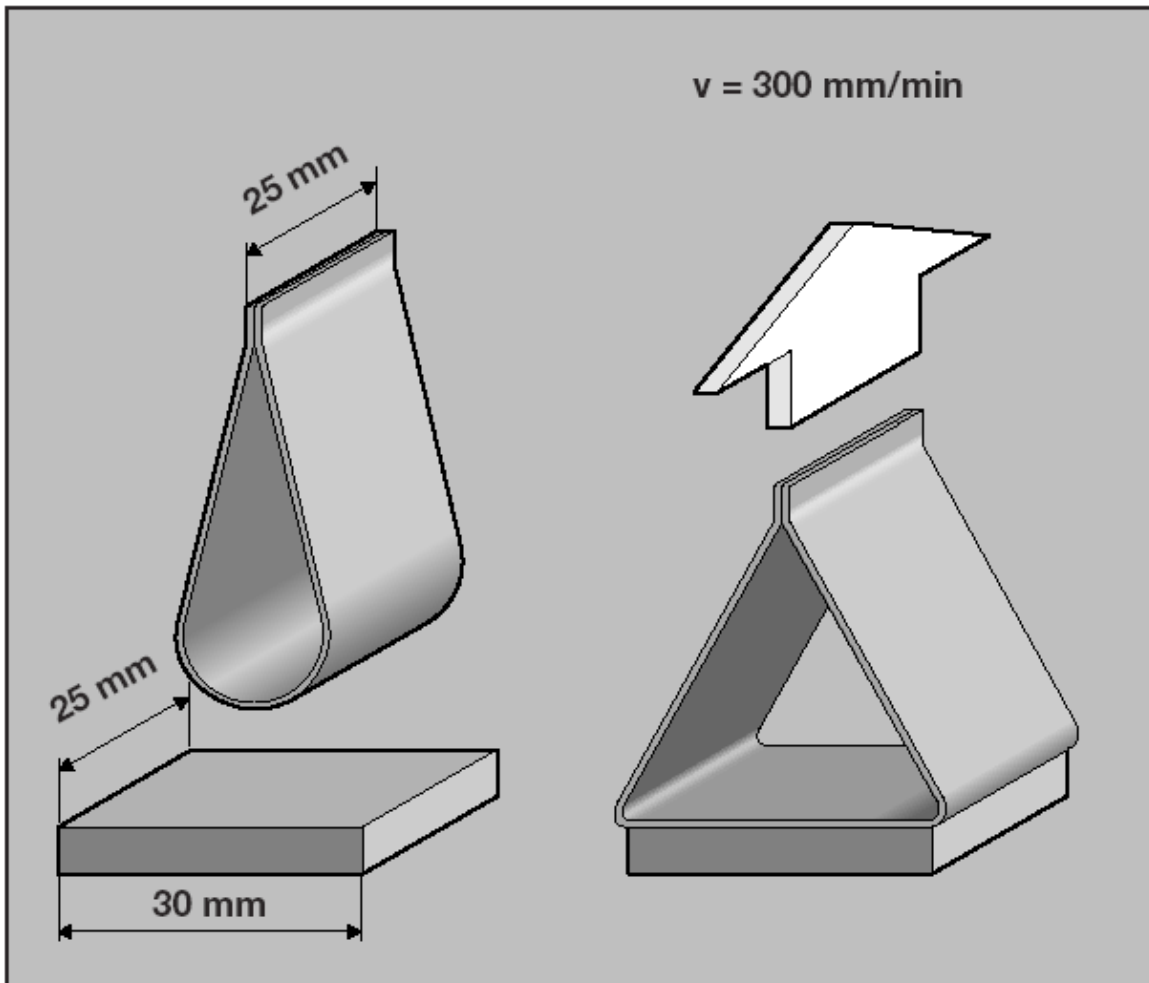
## FINAT Test Method No. 9 Initial adhesion (loop tack)

### Application:

This test method serves as a means of evaluating initial or immediate adhesion (tack). This is an important criterion when processing self-adhesive materials on automatic labelling machines.

### Definition:

Initial adhesion (tack) is ascertained by forming a loop from a piece of self-adhesive material, with the adhesive side facing outwards, bringing it briefly into contact with a normal surface and measuring the force required to detach it. It is also referred to as the "quick stick" value.



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# TEST REQUIREMENTS



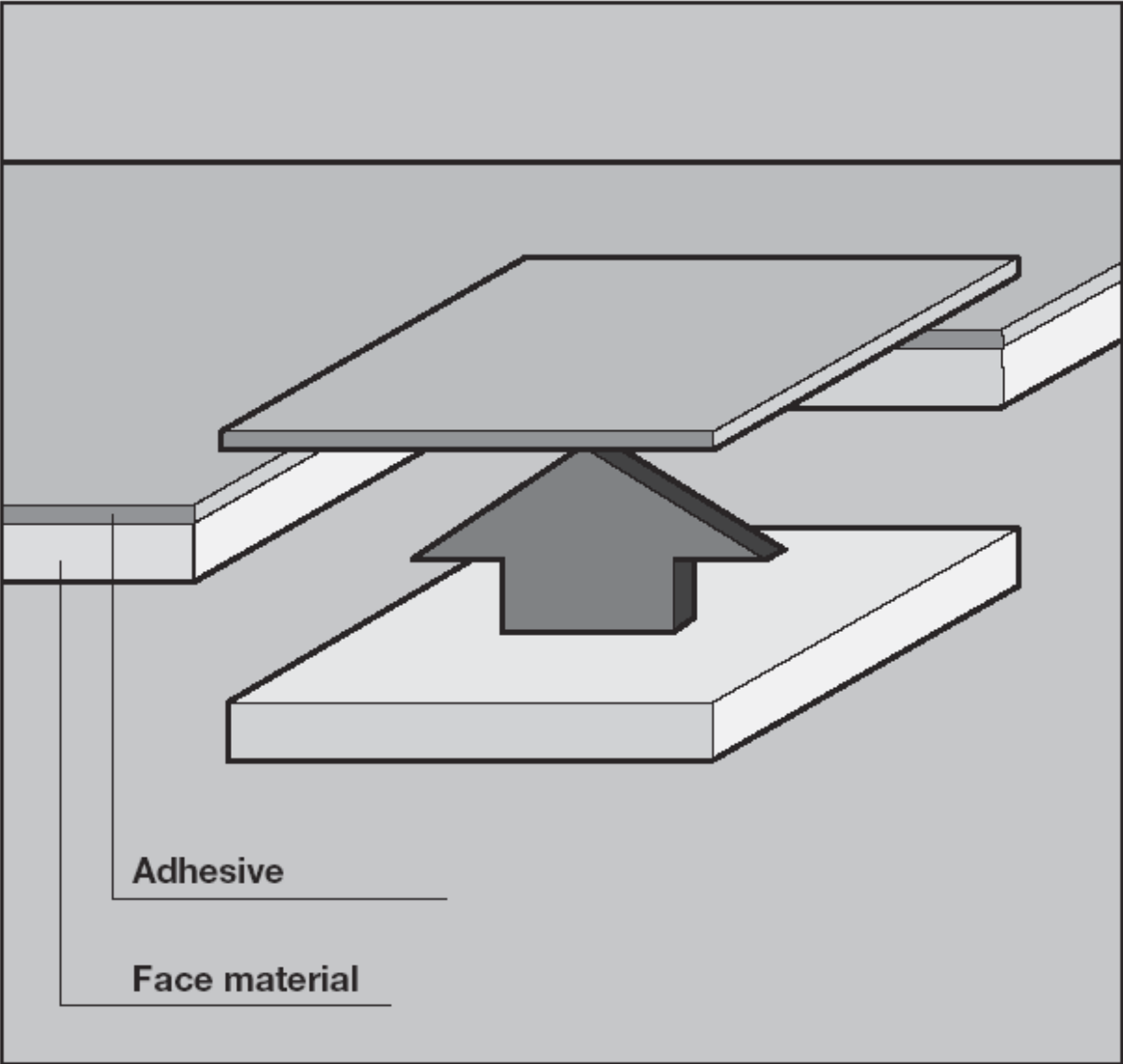
## FINAT Test Method No. 12 Adhesive coating weight

**Application:**

This test method serves to determine the coating weight of the adhesive on a self-adhesive material.

**Definition:**

The coating weight is the weight of the adhesive per unit of area and is expressed in grams per square metre ( $g/m^2$ ).



# TEST REQUIREMENTS



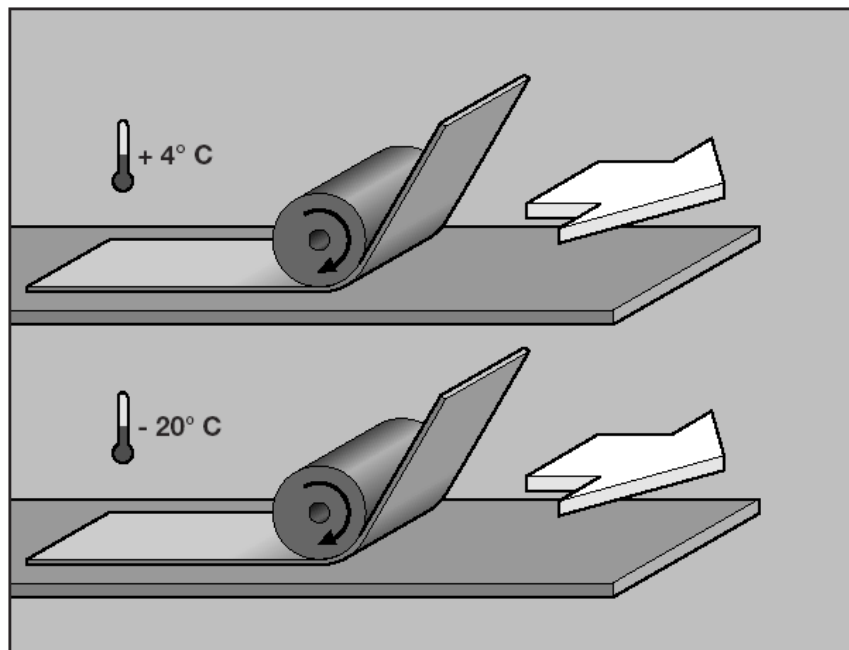
## FINAT Test Method No. 13 Adhesion at low temperatures

### Application:

This test method serves to ascertain the adhesion of a self-adhesive label material at low temperatures.

### Definition:

The low-temperature adhesive properties of a self-adhesive material are tested at a temperature of below +5°C. The test method provides for a subjective evaluation of adhesion at refrigeration temperature (+4°C) and deep-freeze temperature (-20°C). The label to be tested is applied to a specially conditioned test plate by means of a roller. After a specified time has elapsed, the adhesion of the label is evaluated subjectively.



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