



British Standard Methods of test for

Footwear and footwear materials

Part 4. Other components

Section 4.7 Resistance to peeling of ribs stuck to insoles

NOTE. It is recommended that this Section should be read in conjunction with the information in the General introduction to BS 5131, published separately.

1. Scope

This Section describes a peel test for assessing the adhesion of a rib to the attached insole. Provision is also made for peel testing after water soaking to simulate the wetting effect of perspiration during wear.

The test may be carried out either on ribbed insoles or on sample strips of insole material with ribs affixed along the edges.

NOTE. Section 4.7 is based on SATRA* Method AM 1, Appendix R.

2. Reference

This Section refers to BS 3978 'Water for laboratory use'.

3. Principle

The rib is peeled from the attached insole in a tensile-testing machine. Separate determinations are carried out on dry and on wet test pieces.

4. Supplementary information

In the case of strips of insole material, the procedure described in this Section requires to be completed by information on the means of attaching the ribs to the insole material. This information shall be derived from the British Standard, or other specification, for the material under test or shall be the subject of agreement between parties interested in the results of the test.

5. Test pieces

NOTE. Peel tests are usually combined with shear tests on the rib. Figures 4.7/1 and 4.7/2 show convenient combined layouts of test pieces for both tests. Section 4.6 of BS 5131 describes a procedure for the determination of shear strength.

5.1 Ribbed insoles

5.1.1 Test two insoles, taking four test pieces, each about 750 mm long, from each. Mark out test pieces for wet and for dry peel testing according to a suitable scheme, such as that indicated in figure 4.7/1.

5.1.2 Cut out the eight peeling test pieces, marking on them suitable directions of peel, such as those shown in figure 4.7/1. Because the adhesion at the two ends of the rib and at the toe may be unrepresentative of the adhesion as a whole, do not peel towards these points.

5.1.3 Trim the width of each test piece until it is the overall width of the rib flange; if the fabric has a pinked edge do not cut any of this away.

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