

ISO

INTERNATIONAL ORGANIZATION FOR STANDARDIZATION

ISO RECOMMENDATION R 36

DETERMINATION OF THE ADHESION STRENGTH
OF VULCANIZED RUBBERS TO TEXTILE FABRICS

2nd EDITION
November 1969

This second edition supersedes the first edition.

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BRIEF HISTORY

The ISO Recommendation R 36, *Determination of the adhesion of vulcanized natural or synthetic rubbers to textile fabrics*, was drawn up by Technical Committee ISO/TC 45, *Rubber*, the Secretariat of which is held by the British Standards Institution (BSI).

Work on this question led to the adoption of a Draft ISO Recommendation.

In August 1954, this Draft ISO Recommendation (No. 52) was circulated to all the ISO Member Bodies for enquiry. It was approved by 22 Member Bodies; one Member Body, the U.S.A., opposed the approval of the Draft.

This Draft ISO Recommendation was then submitted by correspondence to the ISO Council, which decided, in March 1957, to accept it as an ISO RECOMMENDATION.

BRIEF HISTORY RELATING TO THE 2nd EDITION

The work undertaken by the ISO/TC 45 Secretariat in order to bring the ISO Recommendation R 36 up to date led to the adoption of a Draft ISO Recommendation.

In March 1968, this Draft ISO Recommendation (No. 1405) was circulated to all the ISO Member Bodies for enquiry. It was approved, subject to a few modifications of an editorial nature, by the following Member Bodies :

Australia	Hungary	Poland
Austria	India	South Africa, Rep. of
Belgium	Iran	Spain
Brazil	Israel	Sweden
Canada	Italy	Switzerland
Czechoslovakia	Japan	U.A.R.
France	Korea, Dem. P. Rep. of	United Kingdom
Germany	Netherlands	

One Member Body opposed the approval of the Draft :

U.S.A.

This Draft ISO Recommendation was then submitted by correspondence to the ISO Council, which decided, in November 1969, to accept it as the second edition of ISO Recommendation R 36-1957, the title of which is modified as follows : *Determination of the adhesion strength of vulcanized rubbers to textile fabrics*.

This edition (2nd edition) cancels and replaces the first edition of ISO Recommendation R 36-1957.

DETERMINATION OF THE ADHESION STRENGTH OF VULCANIZED RUBBERS TO TEXTILE FABRICS

1. SCOPE

This ISO Recommendation describes a method of test for measuring the force required to separate, by stripping, two plies of fabric bonded with rubber, or a rubber layer and a fabric ply bonded together.

The method is applicable when the ply surfaces are approximately plane, or are cylindrical having an internal diameter greater than approximately 50 mm. For surfaces which contain sharp bends, angles or other gross irregularities that cannot be avoided, and for hose of internal diameter of less than 50 mm, special methods should be employed.

2. DEFINITION

Adhesion strength. Force required to cause a separation at the interface of the assembled components.

NOTE. — Any separation occurring at any other point, for example inside either component under test, is a failure of the component material. Such separation should be reported and should not be considered as indicating an adhesion strength.

In such cases the adhesion strength is not less than the strength of the weakest component involved.

3. PRINCIPLE OF METHOD

The test consists in measuring the force required to separate, by stripping, two plies of fabric bonded with rubber, or a rubber layer and a fabric ply bonded together, of standard dimensions in the form of a flat strip or a cylinder.