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International Standard 6451

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Plastics coated fabrics — Polyvinyl chloride coatings — Rapid method for checking fusion

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Foreword

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Draft International Standards adopted by the technical committees are circulated to the member bodies for approval before their acceptance as International Standards by the ISO Council.

International Standard ISO 6451 was developed by Technical Committee ISO/TC 45, *Rubber and rubber products*, and was circulated to the member bodies in November 1980.

It has been approved by the member bodies of the following countries :

Austria	Hungary	Spain
Belgium	India	Sri Lanka
Brazil	Ireland	Sweden
Canada	Italy	Thailand
China	Korea, Dem. P. Rep. of	Turkey
Czechoslovakia	Korea, Rep. of	United Kingdom
Denmark	Netherlands	USA
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No member body expressed disapproval of the document.

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Plastics coated fabrics — Polyvinyl chloride coatings — Rapid method for checking fusion

1 Scope and field of application

This International Standard specifies a rapid method for checking the fusion of polyvinyl chloride (PVC) coatings on coated fabrics.

The method is not suitable for coatings obtained from aqueous dispersions of PVC.

2 Reagent and apparatus

2.1 Acetone, of recognized analytical grade.

2.2 Glass vessel, to contain the test assemblies and which may be covered by a glass plate.

2.3 Glass rod, of diameter 5 mm.

2.4 Metal clips.

3 Test pieces

Depending on the thickness of the coated fabric, cut three test pieces of dimensions either 20 mm × 40 mm or 20 mm × 70 mm. The test pieces should, if possible, be taken one near the centre and the others at least 200 mm from the sides of the sample. If the material under test is coated on both sides, the number of test pieces should be increased to six so that three test pieces can be examined per coated face.

4 Procedure

Examine the PVC layer of the test piece for cracks or holes and record the result. Fold each test piece over the glass rod (2.3), with the coating under test outwards. Secure each test piece with a suitable metal clip (2.4) and immerse the assembly in the acetone (2.1) in the vessel (2.2) at standard laboratory temperature.

After 15 min, remove each assembly from the acetone and examine visually for new cracks or holes. Disregard any removal of laquer or surface effects.

5 Expression of results

If fresh cracks and holes have appeared in the bent area, report that fusion is incomplete.

6 Test report

The test report shall include the following information :

a) a reference to this International Standard;

b) a full identification of the product tested;

c) the test temperature;

d) the result of the test (fusion complete or incomplete);

e) any deviation, by agreement or otherwise, from the procedure specified;

f) the date of the test;

g) the length of the test pieces.

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