
**Plastics-coated fabrics for upholstery —
Part 2:
Specification for PVC-coated woven
fabrics**

Supports textiles revêtus de plastique pour ameublement et garniture —

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Partie 2: Spécifications pour les tissus revêtus de PVC
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ISO 7617-2:2003

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Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 2.

The main task of technical committees is to prepare International Standards. Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights.

ISO 7617-2 was prepared by Technical Committee ISO/TC 45, *Rubber and rubber products*, Subcommittee SC 4, *Products (other than hoses)*.

This third edition cancels and replaces the second edition (ISO 7617-2:1994), which has been technically revised.

ISO 7617 consists of the following parts, under the general title *Plastics-coated fabrics for upholstery*:

- Part 1: Specification for PVC-coated knitted fabrics
- Part 2: Specification for PVC-coated woven fabrics
- Part 3: Specification for polyurethane-coated woven fabrics

Plastics-coated fabrics for upholstery —

Part 2: Specification for PVC-coated woven fabrics

1 Scope

This part of ISO 7617 specifies requirements for coated fabrics for upholstered furniture, manufactured by applying to one side of a woven cloth a substantially continuous coating of a suitably plasticized polymer of vinyl chloride, or a copolymer the major constituent of which is vinyl chloride. Such coatings are known as poly(vinyl chloride) (PVC) coatings. The present specification covers two grades (A and B) of PVC-coated woven fabric.

2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 105-A02:1993, *Textiles — Tests for colour fastness — Part A02: Grey scale for assessing change in colour*

ISO 105-B01:1994, *Textiles — Tests for colour fastness — Part B01: Colour fastness to light: Daylight*

ISO 105-B02:1994, *Textiles — Tests for colour fastness — Part B02: Colour fastness to artificial light: Xenon arc fading lamp test*

ISO 105-X12:2001, *Textiles — Tests for colour fastness — Part X12: Colour fastness to rubbing*

ISO 176:1976, *Plastics — Determination of loss of plasticizers — Activated carbon method*

ISO 1421:1998, *Rubber- or plastics-coated fabrics — Determination of tensile strength and elongation at break*

ISO 2231:1989, *Rubber- or plastics-coated fabrics — Standard atmospheres for conditioning and testing*

ISO 2286-1:1998, *Rubber- or plastics-coated fabrics — Determination of roll characteristics — Part 1: Methods for determination of length, width and net mass*

ISO 2411:2000, *Rubber- or plastics-coated fabrics — Determination of coating adhesion*

ISO 4674-1:2003, *Rubber- or plastics-coated fabrics — Determination of tear resistance — Part 1: Constant rate of tear methods*

ISO 5978:1990, *Rubber- or plastics-coated fabrics — Determination of blocking resistance*

ISO 7854:1995, *Rubber- or plastics-coated fabrics — Determination of resistance to damage by flexing*

3 Technical requirements

3.1 Physical requirements

The material shall comply with the appropriate requirements of Table 1.

3.2 Colour fastness requirements

The material shall comply with the requirements of Table 2.

3.3 Visual examination

The coating of the material shall be uniformly applied and shall be free from visible flaws and cracks and when viewed under a magnification of $\times 10$ shall be substantially free from pinholes. The base fabric, unless coated with an unpigmented coating, shall not be visible when viewed from the coated side.

3.4 Colour, grain and finish

The colour, grain and finish of the material, whether in single-colour or multicolour effects, shall be agreed between the purchaser and the supplier.

Colours shall be compared under the conditions stipulated in ISO 105-B01.

3.5 Width of material

The usable width of material when measured in accordance with ISO 2286-1 shall be as agreed between the purchaser and the supplier. For this purpose, the term "usable width" means the width of material that is coated in such a manner that it complies with the requirements of 3.3.

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3.6 Flammability

A method of test for determination of the flammability characteristics of these materials shall be included as a mandatory requirement to be complied with in the absence of other, more stringent, requirements of national authorities.

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4 Sampling

If individual rolls can be identified with manufacturing batches, at least one sample shall be taken from each batch in the consignment. Each sample shall be regarded as being representative of its source, and suitable measures shall be taken to preserve identity between the samples and batch numbers.

If individual rolls cannot be identified in this way, the number of samples to be regarded as being representative of the bulk shall be fixed by agreement between the purchaser and the supplier. Such samples shall be drawn at random.

5 Testing and compliance

Tests shall be conducted on a set of specimens selected from each sample.

The method of selecting specimens from each sample shall be in accordance with the requirements of Annex A. If the specimens after testing comply with the appropriate requirements given in Tables 1 and 2, the bulk of the coated fabric which the sample represents shall be deemed to comply with the requirements of this part of ISO 7617.

If any of the specimens tested do not comply with any of the appropriate requirements given in Tables 1 and 2, the tests which the specimens have failed shall be repeated twice. For this purpose, two further samples shall be taken from the same source as the original sample, and test specimens shall be taken from each sample so that duplicate tests may be conducted. If all the re-test results comply with the appropriate requirements of Table 1 and/or Table 2, then the bulk represented by the samples from which the specimens for re-testing were taken, together with the original samples, shall be deemed to comply with the requirements of this part of ISO 7617. If any of the results of the re-tests do not comply with the appropriate requirements of Table 1 or 2,

the bulk represented by those samples shall be deemed not to comply with the requirements of this part of ISO 7617.

Table 1 — Physical requirements

Property	Limit	Requirements		Method of test
		Grade A	Grade B	
Total mass/unit area (g/m ²) ^a	min.	550	420	ISO 2286-1
Coating mass/unit area (g/m ²) ^a	min.	300	240	ISO 2286-1
Tearing force (N)				ISO 4674-1:2003, method A
longitudinal	min.	44	31	
transverse	min.	44	31	
Coating adhesion (N per 50 mm width)	min.	26	26	ISO 2411
Breaking load (N)				ISO 1421:1998, method 2
longitudinal	min.	580	450	
transverse	min.	580	450	
Flex cracking (cycles) ^b	min.	400 000	300 000	ISO 7854
Heat ageing (% coating mass loss)	max.	5	5	ISO 176
Print wear (change in appearance) (grey scale rating)	min.	3	3	See Annex B
Thickness (mm) at 2 kPa, minimum individual reading	min.	0,4	0,4	ISO 2286-1
Blocking resistance		Separation without damage to surface		ISO 5978

^a The inclusion of minimum values for total mass/unit area and coating mass/unit area does not imply that a minimum value for base fabric mass/unit area may be calculated by subtraction.

^b In the event of dispute, Schildknecht apparatus shall be employed.

Table 2 — Colour fastness requirements

Property	Limit	Requirements		Method of test
		Grade A	Grade B	
Colour-fastness				
to artificial light (xenon arc)	min.	6	6	ISO 105-B02
to rubbing (wet and dry)	min.	4	4	See Annex C

6 Marking

Each roll of fabric shall have a label attached bearing the following information:

- the name and/or distinctive mark of the manufacturer and an identification reference for that material;
- the batch number;
- the colour;
- the length;
- the usable width;
- the reference number of this part of ISO 7617 (i.e. ISO 7617-2) and the appropriate grade reference.

Annex A
(normative)

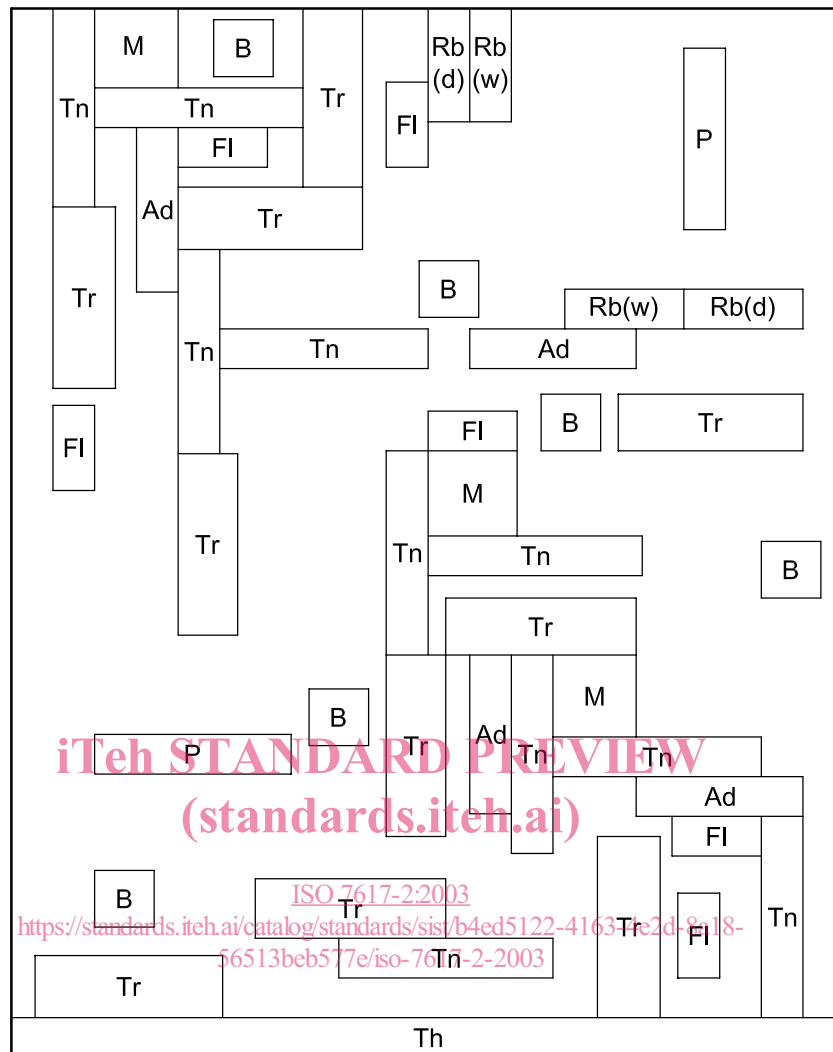
Method of selecting test specimens

The specimens for testing shall be selected from the sample in accordance with the scheme illustrated in Figure A.1, which shows the positions from which the specimens for each type of test shall be taken, except that the specimens required for testing colour fastness to light and those required for heat ageing tests shall be selected from any suitable portion of the sample. In the case of multicolour samples, the specimen shall if possible include all colours. If it is not possible to include all colours, sufficient specimens shall be taken to enable all colours to be tested.

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Key

- M mass determinations
- Tr tear strength (across longitudinal threads)
- Tr tear strength (across transverse threads)
- Tn breaking load (longitudinal)
- Tn breaking load (transverse)
- Ad coating adhesion
- FI resistance to flex cracking (longitudinal direction)
- FI resistance to flex cracking (transverse direction)
- heat ageing (any convenient location)
- Rb(w) colour fastness to rubbing (wet)
- Rb(d) colour fastness to rubbing (dry)
- P print wear (2 pieces, 230 mm × 50 mm)
- B blocking resistance
- Th thickness determination

Figure A.1 — Scheme for selection of test specimens