TC 38

International Standard ISO 7769

INTERNATIONAL ORGANIZATION FOR STANDARDIZATION•МЕЖДУНАРОДНАЯ ОРГАНИЗАЦИЯ ПО СТАНДАРТИЗАЦИИ•ORGANISATION INTERNATIONALE DE NORMALISATION

Textiles — Method for assessing the appearance of creases in durable press products after domestic washing and drying

Textiles — Méthode d'essai pour l'évaluation de l'aspect des plis des étoffes traitées «pressage permanent» après le lavage et le séchage domestiques

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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.

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. They are approved in accordance with ISO procedures requiring at least 75 % approval by the member bodies voting.

International Standard ISO 7769 was prepared by Technical Committee ISO/TC 38, *Textiles*.

Textiles — Method for assessing the appearance of creases in durable press products after domestic washing and drying

1 Scope and field of application

This International Standard specifies a method of test for evaluating the retention of pressed-in creases in durable press fabrics after one or several domestic washing and drying treatments. A technique for inserting creases is not included as this is controlled by fabric properties.

This method has been developed for use primarily with domestic washing machines of Type B as defined in ISO 6330, but it may be possible to use it with machines of Type A defined in the same International Standard.

2 References

ISO 105/A, *Textiles — Tests for colour fastness — Part A : General principles.*

ISO 139, *Textiles — Standard atmospheres for conditioning and testing.*

ISO 6330, *Textiles — Domestic washing and drying procedures for textile testing.*

3 Definition

For the purpose of this International Standard, the following definition applies.

durable press fabric: A fabric which requires little or no ironing after domestic laundering to restore it to a wearable or usable condition.

4 Principle

4.1 Creased fabric specimens are subjected to procedures simulating domestic laundering practices. One of the washing and drying procedures specified in ISO 6330 shall be used, as agreed between the interested parties.

4.2 Evaluation is performed by supplementing the overhead lighting arrangement with a spotlight suitably placed to highlight the creased area. The specimens are compared visually with photographic standards under specified illumination.

5 Apparatus and reagents

5.1 Apparatus as specified in ISO 6330 for washing and drying.

5.2 Steam or dry iron with appropriate fabric temperature settings.

5.3 Lighting and evaluation area in a darkened room using the overhead lighting arrangement shown in figures 1 and 2 and comprising the following items:

a) two 2,4 m length CW (cool white) fluorescent lamps, without baffle or glass;

b) one white enamel reflector, without baffle or glass;

c) one specimen holder;

d) one 6 mm thick plywood mounting board, outside dimensions 1,85 m × 1,20 m, painted grey to match No. 2 rating on the grey scale for assessing staining specified in ISO 105-A03;

e) one 500 W reflector flood lamp and lightshield as illustrated in figure 2.

5.4 AATCC photographic standards prepared for evaluating creases as shown in figure 3.

NOTE — The replicas shown in figure 3 are for illustration purposes only and should not be used as standards. Replicas may be obtained from

AATCC
Technical Center
One Davis Drive
PO Box 12215
Research Triangle Park
NC 27709
USA

6 Test specimens

Prepare three test specimens, each measuring 38 cm × 38 cm and pinked to prevent fraying, each with a pressed-in crease through the middle. If the fabric is wrinkled, it may be smoothed by appropriate ironing prior to testing. Care shall be taken to avoid altering the quality of the crease itself.

7 Procedure

7.1 Wash and dry each specimen according to one of the procedures specified in ISO 6330, as agreed between the interested parties.

7.2 If required, repeat the selected washing and drying cycle four times, to give a total of five cycles.

7.3 Condition the test specimens for 2 h in the atmospheric conditions specified in ISO 139, by hanging each by two corners with the crease in a vertical position or alternatively using full width clamps.

7.4 Evaluation

7.4.1 Three observers shall rate each treated test specimen independently.

7.4.2 Mount [5.3c)] the test specimen on the viewing board [5.3 d)] as illustrated in figure 1, with the crease in the vertical direction. Place the photographic standards (5.4) alongside to facilitate comparative rating.

7.4.3 The observer shall stand directly in front of the specimen, 1,20 m away from the board. It has been found that normal variations in the height of the observer above and below the arbitrary 1,50 m eye level have no significant effect on the rating given.

7.4.4 Compare the retention of the specimen crease with the photographic standards (see figure 3), using the prescribed lighting arrangement in a darkened room as shown in figures 1 and 2. Assign the number of the photographic standard that most nearly matches the appearance of the specimen crease (see figure 3 and the table).

Standard 5 represents the best level of appearance of crease retention while Standard 1 represents the poorest crease retention.

7.4.5 Similarly, the observer shall independently rate each of the other two test specimens. The other two observers shall proceed in the same manner, assigning ratings independently.

8 Expression of results

Average the nine observations made by the three observers on the set of three test specimens. Report the average to the nearest half of a rating.

Table — Crease appearance ratings

Class	Crease appearance
5	Equivalent to Standard 5
4	Equivalent to Standard 4
3	Equivalent to Standard 3
2	Equivalent to Standard 2
1	Equivalent to or worse than Standard 1

9 Test report

The test report shall include the following information:

a) details of the washing and drying procedures used as specified in ISO 6330;

b) the number of washing and drying cycles used;

c) the crease appearance rating as calculated according to clause 8 and expressed according to the table;

d) details of any deviation from the specified procedure.