

Consumer Product Safety Commission

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does not comply with the children's sleepwear flammability standards in a manner that may cause the item to be viewed by the consumer as an item of children's sleepwear.

(Sec. 5 Pub. L. 90-189, 81 Stat. 569, 15 U.S.C. 1194; Sec. 30(b), Pub. L. 92-573, 86 Stat. 1231, 15 U.S.C. 2079(b); 5 U.S.C. 553)

[49 FR 10251, Mar. 20, 1984, as amended at 64 FR 2833, Jan. 19, 1999]

PART 1630—STANDARD FOR THE SURFACE FLAMMABILITY OF CARPETS AND RUGS (FF 1-70)

Subpart A—The Standard

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SOURCE: 40 FR 59931, Dec. 30, 1975, unless otherwise noted.

Subpart A—The Standard

AUTHORITY: Sec. 4, 67 Stat. 112, as amended, 81 Stat. 569-70; 15 U.S.C. 1193.

§ 1630.1 Definitions.

In addition to the definitions given in section 2 of the Flammable Fabrics Act, as amended (Sec. 1, 81 Stat. 568; 15 U.S.C. 1191), and the procedures under that act for setting standards (part 1607 of this chapter), the following definitions apply for the purposes of this Standard:

(a) *Acceptance Criterion* means that at least seven out of eight individual specimens of a given carpet or rug shall meet the test criterion as defined in this Standard.

(b) *Test Criterion* means the basis for judging whether or not a single specimen of carpet or rug has passed the test, i.e., the charred portion of a tested specimen shall not extend to within 2.54 cm. (1.0 in.) of the edge of the hole in the flattening frame at any point.

(c) *Carpet* means any type of finished product made in whole or in part of fabric or related material and intended for use or which may reasonably be expected to be used as a floor covering which is exposed to traffic in homes, offices, or other places of assembly or accommodation, and which may or may not be fastened to the floor by mechanical means such as nails, tacks, barbs, staples, adhesives, and which has one dimension greater than 1.83 m. (6 ft.) and a surface area greater than 2.23 m.² (24 sq. ft.). Products such as "carpet squares", with one dimension less than 1.83 m. (6 ft.) and a surface area less than 2.23 m.² (24 sq. ft.), but intended to be assembled upon installation into assemblies which may have one dimension greater than 1.83 m. (6 ft.) and a surface area greater than 2.23 m.² (24 sq. ft.), are included in this definition. Mats, hides with natural or synthetic fibers, and other similar products in the above, defined dimensions are included in this definition, but resilient floor coverings such as linoleum, asphalt tile and vinyl tile are not.

(d) *Rug* means the same as carpet and shall be accepted as interchangeable with carpet.

(e) *Traffic Surface* means a surface of a carpet or rug which is intended to be walked upon.

(f) *Timed Burning Tablet* (pill) means a methenamine tablet, flat, with a nominal heat of combustion value of 7180 calories/gram, a mass of 150 mg ±5mg and a nominal diameter of 6mm.

(g) *Fire-Retardant Treatment* means any process to which a carpet or rug has been exposed which significantly

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decreases the flammability of that carpet or rug and enables it to meet the acceptance criterion of this Standard.

[40 FR 59931, Dec. 30, 1975, as amended at 72 FR 60767, Oct. 26, 2007]

§ 1630.2 Scope and application.

(a) This Standard provides a test method to determine the surface flammability of carpets and rugs when exposed to a standard small source of ignition under carefully prescribed draft-protected conditions. It is applicable to all types of carpets and rugs used as floor covering materials regardless of their method of fabrication or whether they are made of natural or synthetic fibers or films, or combinations of or substitutes for these.

(b) One of a kind, carpet or rug, such as an antique, an Oriental, or a hide, may be excluded from testing under this Standard pursuant to conditions established by the Consumer Product Safety Commission.

§ 1630.3 General requirements.

(a) *Summary of test method.* This method involves the exposure of each of eight conditioned, replicate specimens of a given carpet or rug to a standard igniting source in a draft-protected environment, and measurement of the proximity of the charred portion to the edge of the hole in the prescribed flattening frame.

(b) *Test criterion.* A specimen passes the test if the charred portion does not extend to within 2.54 cm. (1.0 in.) of the edge of the hole in the flattening frame at any point.

(c) *Acceptance criterion.* At least seven of the eight specimens shall meet the test criterion in order to conform with this Standard.

§ 1630.4 Test procedure.

(a) *Apparatus*—(1) *Test chamber.* The test chamber shall consist of an open top hollow cube made of noncombustible material¹ with inside dimensions 30.48 × 40.48 × 30.48 cm. (12 × 12 × 12 in.) and a minimum of 6.35 (¼ in.) wall thickness. The flat bottom of the box shall be made of the same material as the sides and shall be easily removable.

¹6.35 mm (¼ in.) cement asbestos board is a suitable material.

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The sides shall be fastened together with screws or brackets and taped to prevent air leakage into the box during use.

NOTE: A minimum of two chambers and two extra bottoms is suggested for efficient operation.

(2) *Flattening frame.* A steel plate, 22.86 × 22.86 cm. (9 × 9 in.), 6.35 mm. (¼ in.) thick with a 20.32 cm. (8 in.) diameter hole in its center is required to hold the carpet or rug flat during the course of the test. It is recommended that one be provided for each test chamber.

(3) *Standard igniting source.* A methenamine tablet, flat, with a nominal heat of combustion value of 7180 calories/gram, a mass of 150 mg ± 5 mg and a nominal diameter of 6mm. These tablets shall be stored in a desiccator over a desiccant for 24 hours prior to use. (Small quantities of absorbed water may cause the tablets to fracture when first ignited. If a major fracture occurs, any results from that test shall be ignored, and it shall be repeated.)

(4) *Test specimens.* Each test specimen shall be a 22.86 × 22.86 cm. (9 × 9 in.) section of the carpet or rug to be tested. Eight specimens are required.

(5) *Circulating air oven.* A forced circulation drying oven capable of removing the moisture from the specimens when maintained at 105 °C. (221 °F.) for 2 hours.²

(6) *Desiccating cabinet.* An airtight and moisture tight cabinet capable of holding the floor covering specimens horizontally without contacting each other during the cooling period following drying, and containing silica gel desiccant.

(7) *Gloves.* Nonhygroscopic gloves (such as rubber polyethylene) for handling the sample after drying, and raising the pile on specimens prior to testing.

(8) *Hood.* A hood capable of being closed and having its draft turned off during each test and capable of rapidly removing the products of combustion

²Option 1 of ASTM D 2654–67T, “Methods of Test for Amount of Moisture in Textile Materials,” describes a satisfactory oven. (“1969 Book of ASTM Standards,” part 24, published by the American Society for Testing and Materials, 1916 Race Street, Philadelphia, Pa. 19103.)