



NFPA 701

Standard Methods of Fire Tests for Flame Propagation of Textiles and Films

- 2004 Edition -

Chapter 1 Administration

1.1* Scope.

1.1.1 Test Method 1.

1.1.1.1 Test Method 1 shall apply to fabrics or other materials used in curtains, draperies, or other window treatments. Vinyl coated fabric blackout linings shall be tested according to Test Method 2.

1.1.1.2 Test Method 1 shall apply to single-layer fabrics and to multilayer curtain and drapery assemblies in which the layers are fastened together by sewing or other means. Vinyl-coated fabric blackout linings shall be tested according to Test Method 2.

1.1.1.5 For the purposes of Test Method 1, the terms *curtains*, *draperies*, or other types of window treatments, where used, shall include, but not be limited to, the following items :

- (1) Window curtains
- (2) Stage or theatre curtains
- (3) Vertical folding shades
- (4) Roll-type window shades
- (5) Hospital privacy curtains
- (6) Window draperies
- (7) Fabric vertical shades or blinds
- (8) Horizontal folding shades
- (9) Swags
- (10) Fabric horizontal shades or blinds

Chapter 4 General Requirements for the Test Method 1

4.1 General.

4.1.1 A weighed specimen consisting of one or more layers of textile shall be suspended vertically from a pin bar near the top rear of an open-face test cabinet.

4.1.2 A specified gas flame shall be applied to the center of the lower edge of the specimen for 45 seconds and then withdrawn.

4.1.3 The specimen shall be allowed to burn until the flame self-extinguishes and no further specimen damage occurs.

4.1.4 The specimen shall be removed from the pin bar and, after room conditioning, shall be weighed again.

4.1.5 The percent weight loss shall be determined and used as a measure of total flame propagation and specimen damage.

Chapter 10 Flame Propagation Performance Criteria for Test Method 1

10.1 Performance Criteria.

10.1.1 To pass Test Method 1, a sample shall meet the criteria in 10.1.1.1 through 10.1.1.4.

10.1.1.1 Fragments or residues of specimens that fall to the floor of the test chamber shall not continue to burn for more than an average of 2 seconds per specimen for the sample of 10 specimens.

10.1.1.2 The average weight loss of the 10 specimens in a sample shall be 40 percent or less.

10.1.1.3 No individual specimen's percent mass loss shall deviate more than 3 standard deviations from the mean for the 10 specimens.

10.1.1.4 When a retest is required, no individual specimen's percent mass loss in the second set of specimens shall deviate from the mean value by more than 3 standard deviations calculated for the second set.

10.1.2 When a sample does not demonstrate passing performance in accordance with all of the conditions indicated in 10.1.1.1 through 10.1.1.4 the material shall be recorded as having failed Test Method 1.

Please Note :

These portions of information were taken from the NFPA 701 Standard Methods of Fire Tests for Flame Propagation of Textile and Films 2004 Edition. A complete version of the NFPA 701 Document may be purchased from the NFPA at www.nfpa.org