



Designation: D8342/D8342M – 21

Standard Test Method for Measuring the Probability of a Full Length Burn on a Cannabis/Hemp Pre-roll¹

This standard is issued under the fixed designation D8342/D8342M; the number immediately following the designation indicates the year of original adoption or, in the case of revision, the year of last revision. A number in parentheses indicates the year of last reapproval. A superscript epsilon (ϵ) indicates an editorial change since the last revision or reapproval.

1. Scope

1.1 This fire-test-response standard provides a standard measure of the probability of a cannabis/hemp pre-roll positioned on a substrate to generate enough heat to continue burning and thus potentially cause ignition of bedding or upholstered furniture.

1.2 This test method shall be applicable to pre-roll units that are intended for personal inhalation by means of combustion and contain dried herbal material from any type of a cannabis plant, that is, cannabis/hemp. For the sake of brevity, the term “cannabis” shall be used henceforth to refer to any type of cannabis plant (cannabis/hemp).

1.3 This test method shall be applicable to pre-rolls that burn along the length of a cannabis pre-roll column.

1.4 This test method shall not be applicable to infused pre-rolls, which are outside the scope of this standard.

1.5 Pre-roll preparation and sampling shall be made using Practice [D8343/D8343M](#).

1.6 *Units*—The values stated in either SI units or United States Customary units (USC units) are to be regarded separately as standard. The values stated in each system may not be exact equivalents; therefore, each system shall be used independently of the other. Combining values from the two systems may result in non-conformance with the standard. Metric units will be stated as standard and USC units will be shown in brackets relative to the metric units.

1.7 *This standard does not purport to address all of the safety concerns, if any, associated with its use. It is the responsibility of the user of this standard to establish appropriate safety, health, and environmental practices and determine the applicability of regulatory limitations prior to use.*

1.8 *This international standard was developed in accordance with internationally recognized principles on standardization established in the Decision on Principles for the Development of International Standards, Guides and Recom-*

mendations issued by the World Trade Organization Technical Barriers to Trade (TBT) Committee.

2. Referenced Documents

2.1 ASTM Standards:²

[D8245](#) Guide for Disposal of Resin-Containing Cannabis Raw Materials and Downstream Products

[D8343/D8343M](#) Practice for Measuring the Physical Properties of Cannabis/Hemp Pre-rolls

[E177](#) Practice for Use of the Terms Precision and Bias in ASTM Test Methods

[E691](#) Practice for Conducting an Interlaboratory Study to Determine the Precision of a Test Method

[E1352](#) Test Method for Cigarette Ignition Resistance of Mock-Up Upholstered Furniture Assemblies

[E1353](#) Test Methods for Cigarette Ignition Resistance of Components of Upholstered Furniture

2.2 NFPA Standards:³

[NFPA 260](#) Standard Methods of Tests and Classification Systems for Cigarette Ignition Resistance of Components of Upholstered Furniture (2019)

[NFPA 261](#) Standard Method of Test for Determining Resistance of Mock-up Upholstered Furniture Material Assemblies to Ignition by Smoldering Cigarettes (2018)

2.3 Other Standards:

[16 CFR 1632](#) Standard for the Flammability of Mattresses and Mattress Pads (FF 4-72, Amended)⁴

[NIST 851-2](#) Test Methods for Quantifying the Propensity of Cigarettes to Ignite Soft Furnishings, Volume 2⁵

[NIST 1436](#) Relative Ignition of Propensity of Test Market Cigarettes⁵

² For referenced ASTM standards, visit the ASTM website, www.astm.org, or contact ASTM Customer Service at service@astm.org. For *Annual Book of ASTM Standards* volume information, refer to the standard's Document Summary page on the ASTM website.

³ Available from National Fire Protection Association (NFPA), 1 Batterymarch Park, Quincy, MA 02169-7471, <http://www.nfpa.org>.

⁴ Available from U.S. Government Printing Office, Superintendent of Documents, 732 N. Capitol St., NW, Washington, DC 20401-0001, <http://www.access.gpo.gov>.

⁵ Available from National Institute of Standards and Technology (NIST), 100 Bureau Dr., Stop 1070, Gaithersburg, MD 20899-1070, <http://www.nist.gov>.

¹ This test method is under the jurisdiction of ASTM Committee [D37](#) on Cannabis and is the direct responsibility of Subcommittee [D37.04](#) on Processing and Handling.

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