



Standard Test Method for Evaluating Paintball Barrier Netting¹

This standard is issued under the fixed designation F2278; 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.

INTRODUCTION

This standard is intended to provide a basic test method that would allow the user to determine the effectiveness of paintball barrier netting. The use of safe paintball barrier netting at paintball playing facilities is critical to protect non-players from accidental impact of a paintball.

This specification is written within the current state-of-the-art of paintball barrier netting technology. The intent is to revise this specification whenever substantive information becomes available which justifies revising existing requirements or adding new requirements.

1. Scope

1.1 This test method is designed to evaluate paintball barrier netting that may be used to delineate playing fields, chronograph areas, target ranges, and other “goggle-on” areas of an active paintball site. An apparatus is suggested to evaluate paintball barrier netting in a laboratory. On site testing does not require such an apparatus.

1.2 This standard is designed to be used in conjunction with Guide F2184.

1.3 The values stated in SI units are to be regarded as the standard; the inch-pound units in parentheses are provided for information only.

1.4 *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 and health practices and determine the applicability of regulatory limitations prior to use.*

2. Referenced Documents

2.1 *ASTM Standards:*²

F1979 Specification for Paintballs Used in the Sport of Paintball

F2184 Guide for Installation of Paintball Barrier Netting

F2272 Specification for Paintball Markers

¹ This test method is under the jurisdiction of ASTM Committee F08 on Sports Equipment, Playing Surfaces, and Facilities and is the direct responsibility of Subcommittee F08.24 on Paintball and Equipment.

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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. Terminology

3.1 *Definitions of Terms Specific to This Standard:*

3.1.1 *caliber, n*—the term used to refer to the size of a paintball projectile. Related to the measurement of the diameter of the paintball as described in Specification F1979.

3.1.2 *“goggles-on” area, n*—areas in which all persons are required to wear paintball goggles, such as and not limited to playing fields, game areas, chronograph areas, and target ranges.

3.1.3 *muzzle, n*—the end of the paintball marker through which the paintball is discharged, also referred to as the end of the barrel.

3.1.4 *paintball, n*—a spherical ball comprised of a shell and a fill, designed to be expelled from a paintball marker and conforms to Specification F1979.

3.1.5 *paintball barrier netting, n*—netting used in the sport of paintball as a protective barrier.

3.1.6 *paintball marker, n*—a device specifically designed to discharge paintballs. The device is sometimes referred to as a paintball gun.

3.1.7 *playing field, n*—an area delineated by a boundary marker, in which paintball games are conducted.

3.1.8 *shell, n*—a rigid to semi-rigid material (generally of gelatin) that encapsulates the fill of a paintball.

3.1.9 *standard ambient temperature (SAT), n*—used to describe a substance at a temperature of $25 \pm 2^\circ\text{C}$ ($77 \pm 4^\circ\text{F}$).

4. Significance and Use

4.1 This method is performed to evaluate if paintball barrier netting will prevent an intact paintball or shell fragments exceeding 3 by 5 mm (0.118 by 0.197 in.) from passing through the netting.