Designation: F 2157 – 02

An American National Standard

Standard Specification for Synthetic Surfaced Running Tracks[1]

This standard is issued under the fixed designation F 2157; 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

There is a need to provide for the safety of athletes and durability of surfaces used for competition running. There are a number of sources of injury with regard to the performance of a running track surface and protection of athletes of all ages.

1. Scope

1.1 This specification establishes the minimum performance requirements and classification when tested in accordance with the procedures outlined within this specification. All documents referencing this specification must include classification required.

1.2 This specification does not imply that an injury cannot be incurred if the surface is found to be in compliance with this specification.

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

2. Referenced Documents

2.1 *ASTM Standards:*

D 297 Test Methods for Rubber Products, Chemical Analysis[2]

D 2616 Test Method for Evaluation of Visual Color Difference with a Gray Scale[3]

D 2859 Test Method for Ignition Characteristics of Finished Textile Floor Covering Materials[4]

D 2950 Test Method for Density of Bituminous Concrete in Place by Nuclear Methods[5]

E 303 Test Method for Measuring Surface Friction Properties Using the British Pendulum Tester[5]

E 1131 Test Method for Composition Analysis by Thermogravimetry[6]

G 154 Practice for Operating Light and Water Exposure Apparatus for UV Exposure of Nonmetallic Materials[7]

2.2 *Other Standards:*

DIN 18035 Part 6 A Standard for Sports Grounds, Synthetic Surfacings, Requirements, Test, Maintenance[8]

IAAF Performance Specifications for Synthetic Surfaced Athletics Tracks (Outdoors)[9]

3. Terminology

3.1 *Definitions of Terms Specific to This Standard:*

3.1.1 *compliance*, *n*—a test result that falls within the specified range, meets a stated minimum value or achieves a "pass" rating on a test with a pass/fail result.

3.1.2 *"D" area*, *n*—an integral part of the synthetic surfacing located within the oval.

3.1.3 *EPDM components*, *n*—the residual elements of an EPDM rubber product once the fillers and plasticizers have been eliminated.

3.1.4 *EPDM rubber product*, *n*—a product comprised of organic and inorganic materials with a minimum of 20 % and a maximum of 26 % of ethylene propylene-diene-saturated polymethylene main chain along with other organic and inorganic components.

3.1.5 *flat*, *n*—an area that by design is to have a finished slope of 0.5 % or less.

3.1.6 *recycled black EPDM rubber product*, *n*—crumbs or granules manufactured through ambient or cryogenic grinding or crushing of post industrial scrap (typically automotive), containing a mixture of types of rubber including EPDM rubber product and varying in size. The material must be free of dust, metals, and other contaminants.

3.1.7 *recycled SBR rubber*, *n*—crumbs, granules, or buffings/strands manufactured through the ambient or cryogenic grinding or crushing of car or truck tires or industrial scrap and varying in size. Must be free of dust, metals, and other contaminants.

[1] This specification is under the jurisdiction of ASTM Committee F08 on Sports Equipment and Facilities and is the direct responsibility of Subcommittee F08.23 on Tennis Courts and Track Surfaces.

Current edition approved June 10, 2002. Published August 2002.

[2] *Annual Book of ASTM Standards*, Vol 09.01.

[3] *Annual Book of ASTM Standards*, Vol 06.01.

[4] *Annual Book of ASTM Standards*, Vol 04.07.

[5] *Annual Book of ASTM Standards*, Vol 04.03.

[6] *Annual Book of ASTM Standards*, Vol 14.02.

[7] *Annual Book of ASTM Standards*, Vol 14.04.

[8] Available from Beuth Verlag GmbH (DIN-- DIN Deutsches Institut fur Normung e.V.), Burggrafenstrasse 6, 10787, Berlin, Germany.

[9] Available from IAAF Headquarters, 17 rue Princesse Florestine—BP 359, MC-98007, Monaco Cedex. http://www.iaaf.org

Copyright © ASTM International, 100 Barr Harbor Drive, PO Box C700, West Conshohocken, PA 19428-2959, United States.