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ICS 97.220.10
CCS Y 55

TY

TY/T 2003.9-2021

Sports surface layer performance test method - Part 9: Tensile properties of synthetic materials

运动面层性能测试方法 第9部分：合成材料拉伸性能

(English Translation)

Issued on: July 8, 2021

Issued by: General Administration of Sport

Preview: page 1 of 4 shown, 10 in the full document. Complete English PDF, instant download:
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Table of Contents

Foreword

Introduction

1 Scope

2 Normative references

3 Terms and Definitions

Foreword

This document is in accordance with the provisions of GB/T 1.1-2020 "Guidelines for Standardization Work Part 1: Structure and Drafting Rules of Standardization Documents" drafted.

This document is part 9 of TY/T 2003 "Testing Methods for Performance of Sports Surfaces". TY/T 2003 has or will release the following part.

--- Part 1: Specifications;

--- Part 2: Thickness;

--- Part 3: Anti-slip value;

--- Part 4: Shock absorption;

--- Part 5: Vertical deformation;

--- Part 6: Ball rolling performance;

--- Part 7: Vertical ball bounce;

--- Part 8: Rolling load;

--- Part 9: Tensile properties of synthetic materials.

Please note that some content of this document may be patented. The issuing agency of this document assumes no responsibility for identifying patents.

Introduction

The surface performance test method is an important technical support to verify whether the sports surface meets the requirements for use, ensure sports safety, and ensure the quality of the venue.

support. TY/T 2003 "Sports Surface Performance Test Methods" series of standards aim to

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consolidate the basic standard system of sports facilities and equipment, provide scientific, an efficient and advanced method for testing motion surfaces. In order to avoid the length of the standard and simplify the process of using the standard query, the standard will move the surface layer performance.

The test methods for each project are respectively established and are to be composed of the following parts.

--- Part 1: Specifications. The purpose is to provide a detection method for the flatness, slope, size, angle, etc. of the moving surface layer.

--- Part 2: Thickness. The purpose is to provide a detection method for the thickness and absolute thickness of the moving surface layer.

--- Part 3: Anti-slip value. The purpose is to provide a detection method for the anti-slip value of the moving surface.

--- Part 4: Shock absorption. The purpose is to provide a detection method for the impact absorption of the sports surface layer.

--- Part 5: Vertical deformation. The purpose is to provide a detection method for the vertical deformation and standard vertical deformation of the moving surface layer.

--- Part 6: Ball rolling performance. The purpose is to provide a detection method for the ball rolling performance of the moving surface layer.

--- Part 7: Vertical ball bounce. The purpose is to provide detection for the vertical ball bounce height and vertical ball bounce rate of the sports surface layer method.

--- Part 8: Rolling loads. The purpose is to provide a detection method for the rolling load of the moving surface layer.

--- Part 9: Tensile properties of synthetic materials. The purpose is to provide a detection method for the tensile strength and elongation at break of the sports surface layer.

Sports surface performance test method Part 9: Tensile properties of synthetic materials Caution - Persons using this document should have practical experience in formal laboratory work. This document does not address all possible security issues it is the user's responsibility to take appropriate safety and health measures, and to ensure compliance with the conditions stipulated by relevant national regulations.

1 Scope

This document specifies the principles, test conditions, instruments, samples, test procedures, and tests for the tensile properties of synthetic material sports surfaces.

Data processing and test reports, etc.

This document applies to the testing of the tensile properties of synthetic sports surfaces.

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2 Normative references

The contents of the following documents constitute essential provisions of this document through normative references in the text. Among them, dated citations documents, only the version corresponding to that date applies to this document; for undated references, the latest edition (including all amendments) applies to this document.

GB/T 1040.1-2018 Determination of Tensile Properties of Plastics Part 1: General GB/T 10654-2001 Determination of tensile strength and elongation at break of polymeric porous elastic materials GB 21389 Verniers, Band Meters and Digital Calipers GB/T 38373-2019 General vocabulary for sports surface system and sports performance of sports facilities TY/T 2003.2-2021 Test method for sports surface performance part 2.Thickness

3 Terms and Definitions

The following terms and definitions apply to this document.

It is a polymer composite material with sports function and sports protection function that is paved on the base of building structures such as asphalt concrete or cement concrete.

material layer.

Note: This document refers to the surface layer of plastic synthetic materials.

[Source. GB/T 38373-2019, 2.6.1.1] 3.2 gauge length the initial distance between the two marking lines in the middle part of the sample.

[Source. GB/T 1040.1-2018, 3.1] 3.3 tensile stress Within the gauge length of the specimen, the normal force per unit of the original section.

[Source. GB/T 1040.1-2018, 3.6]

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