

ICS 91.120.30

CCS Q17



**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GB 12952-2011

Polyvinyl chloride plastic sheets for waterproofing

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(English Translation)

Issued on: December 30, 2011

Implemented on: December 1, 2012

**Issued by: General Administration of Quality Supervision, Inspection and
Quarantine of the People's Republic of China;
Standardization Administration of China**

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Foreword

Section 5.3 of this Standard is compulsory; the rest are voluntary.

This Standard was drafted according to the rules specified in GB/T 1.1-2009.

This Standard replaces GB 12952-2003 "Polyvinyl Chloride Plastic Sheets for Waterproofing". Compared with GB 12952-2003, the main technical changes in this Standard are as follows.

- The product classification was modified (see Chapter 4 in this Standard; Chapter 3 in Version 2003);
- The static load resistance, peeling off seam strength, tear resistance, water absorption and wind uplift resistance were added; adhesion at shearing was deleted (see Section 5.3 in this Standard; Section 4.3 in Version 2003);
- The classification of Type I and II was deleted; heat ageing and artificial weathering test time were added (see Section 5.3 in this Standard; Section 4.3 in Version 2003);
- The test methods in GB/T 328 were adopted (see Chapter 6 in this Standard; Chapter 5 in Version 2003);
- The wind uplift resistance test method was added (see Appendixes A and B).

This Standard is not equivalent to ASTM D4434. Appendix A of this Standard refers to

ANSI/FM 4474-2004 "Evaluating the Simulated Wind Uplift of Roof System with Static Positive Pressure and/or Negative Pressure"; Appendix B of this Standard refers to ETAG 006.2007 "Guideline for European Technical Approval of Systems of Mechanically Fastened Flexible Roof Waterproofing Membranes".

This Standard was proposed by China Building Materials Federation.

This Standard shall be under the jurisdiction of Subcommittee on Building Waterproof Materials of National Technical Committee on Light and Decorative Materials of Standardization Administration of China (SAC/TC 195/SC 1).

Chief Drafting Organizations of this Standard. China Building Materials Academy Suzhou Waterproof Research Institute, Technical Supervision & Research Center for China Building Material Industry, China National Building Waterproof Association, and Shanghai Research Institute of Building Sciences (SRIBS).

Participating drafting organizations of this Standard. Sarnafil Waterproofing Systems (Shanghai) Ltd., Shenzhen Zhuobao Technology Co., Ltd., Shanghai ShenDa Kobond New Materials Co., Ltd., Soprema Shanghai Trading Company, Shanghai Hainer Polyvinyl Chloride Plastic Sheets for Waterproofing

1 Scope

This Standard specifies the terms and definitions, classification and designation, requirements, test methods, inspection rules, marking, packaging, storage and transport of polyvinyl chloride plastic waterproofing sheets.

This Standard is applicable to polyvinyl-chloride-based plastic waterproofing sheets that are used for waterproofing in construction works.

2 Normative References

The following documents contain provisions which, through reference in this text, constitute provisions of this Standard. For dated references, only the dated edition applies. For undated references, the latest edition (including all amendments) applies.

GB/T 328.5-2007 Test Methods for Building Sheets for Waterproofing - Part 5.

Plastic and Rubber Sheets for Waterproofing - Thickness and Mass Per Unit Area

GB/T 328.7 Test Methods for Building Sheets for Waterproofing - Part 7. Plastic and Rubber Sheets for Waterproofing - Length, Width, Straightness and Flatness

GB/T 328.9-2007 Test Methods for Building Sheets for Waterproofing - Part 9. Plastic and Rubber Sheets for Waterproofing - Tensile Properties

GB/T 328.10-2007 Test Methods for Building Sheets for Waterproofing - Part 10. Bitumen Plastic and Rubber Sheets for Waterproofing - Watertightness

GB/T 328.13 Test Methods for Building Sheets for Waterproofing - Part 13. Plastic and Rubber Sheets for Waterproofing - Dimensional Stability

GB/T 328.15 Test Methods for Building Sheets for Waterproofing - Part 15. Plastic and Rubber Sheets for Waterproofing - Foldability at Low Temperature

GB/T 328.19 Test Methods for Building Sheets for Waterproofing - Part 19. Plastic and Rubber Sheets for Waterproofing - Resistance to Tearing

GB/T 328.21 Test Methods for Building Sheets for Waterproofing - Part 21. Plastic and Rubber Sheets for Waterproofing - Peeling Off Seam Strength

GB/T 328.25-2007 Test Methods for Building Sheets for Waterproofing - Part 25. Bitumen Plastic and Rubber Sheets for Waterproofing - Resistance to Static Loading

GB/T 528 Rubber, Vulcanized or Thermoplastic - Determination of Tensile Stress - Strain Properties

GB/T 529 Rubber Vulcanized or Thermoplastic - Determination of Tear Strength (Trouser, Angle and Crescent Test Pieces)

GB/T 10801.2 Rigid Extruded Polystyrene Foam Board for Thermal Insulation (XPS)

GB/T 18244 Test Methods for Resistance to Weathering of Building Waterproofing Materials

GB/T 18378 Terminology for Waterproof Bitumen and Waterproof Sheet

GB/T 20624.2 Paints and Varnishes - Rapid-deformation (Impact Resistance) Tests - Part 2. Falling-weight Test (Small-Area Indenter)

GB 50009 Load Code for the Design of Building Structures

3 Terms and Definitions

For the purpose of this Standard, the terms and definitions given in GB/T 18378 AND the following terms and definitions apply.

3.1

Homogeneous polyvinyl chloride plastic waterproofing sheets

Polyvinyl chloride plastic waterproofing sheets where no internally reinforcing materials or backing materials are adopted.

3.2

Polyvinyl chloride plastic waterproofing sheets backed with fabric

Polyvinyl chloride plastic waterproofing sheets where fabrics, such as polyester nonwoven fabrics, are compounded on the lower surface of plastic sheets.

3.3

Polyvinyl chloride plastic waterproofing sheets internally reinforced with fabric

Polyvinyl chloride plastic waterproofing sheets which are reinforced in the middle of plastic sheets with polyester or fiberglass mesh fabric.

3.4

Polyvinyl chloride plastic waterproofing sheets internally reinforced with glass fibers

Polyvinyl chloride plastic waterproofing sheets that are added with short glass fiber or fiberglass nonwoven fabrics which have no visible effect on mechanical performance (such as tensile properties) and only improve the product size stability.

3.5

Polyvinyl chloride plastic waterproofing sheets internally reinforced with glass fibers and backed with fabric

Polyvinyl chloride plastic waterproofing sheets which are added with short glass fiber or fiberglass nonwoven fabrics and where fabrics, such as polyester nonwoven fabrics, are compounded on the lower surface of plastic sheets.