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

GB/T 5836.2-2006

**Unplasticized poly (vinyl chloride) (PVC-U) fittings for soil and
waste inside buildings
(English Translation)**

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Foreword

GB/T 5836 consists of two parts.

- GB/T 5836.1-2006 "Unplasticized poly (vinyl chloride) (PVC-U) pipes for soil and waste discharge inside buildings";
- GB/T 5836.2-2006 "Unplasticized poly (vinyl chloride) (PVC-U) fittings for soil and waste inside buildings".

This Part is Part 2 of GB/T 5836.

This Part referred to ISO 3633.2002 "Plastics piping systems for soil and waste discharge (low and high-temperature) inside buildings -- Unplasticized poly (vinyl chloride) (PVC-U)". Combining with the actual conditions of production and application in China, it revised GB/T 5836.2-1992 "Unplasticized polyvinyl chloride fittings for drainage in buildings".

Since the implementation of this Standard, it replaces GB/T 5836.2-1992.

Compared with GB/T 5836.2-1992, the main changes in technical content in this Part are as follows.

- added the clauses of "Definitions and symbols" and "Materials";

- added the provisions on elastic sealing ring fittings;
- expanded the product specifications from 40mm ~ 160mm to 32mm ~ 315mm;
- specified the wall thickness requirements for different parts of fittings; partially modified other sizes;
- deleted the classification of superior products and qualified products;
- added the requirements for product density;
- specified the Vicat softening temperature as 74°C;
- added the requirements for system applicability;
- added Annex A.

Annex A of this Part is informative.

This Part was proposed by China Light Industry Federation.

Unplasticized poly (vinyl chloride) (PVC-U)
fittings for soil and waste inside buildings

1 Scope

This Part specifies the definitions, materials, product classifications, requirements, test methods, inspection rules, marks, packaging, transport and storage of unplasticized poly (vinyl chloride) (PVC-U) fittings that take polyvinyl chloride (PVC) resin as main raw material and are molded through injection (hereinafter referred to as the fittings).

This Part is applicable to the fittings for soil and waste inside buildings. In consideration of the chemical resistance and heat resistance of the material, it can also be applicable to industrial drainage pipe fittings.

The fittings specified in this Part are used in conjunction with the fittings specified in GB/T 5836.1-2006 "Unplasticized poly (vinyl chloride) (PVC-U) pipes for soil and waste discharge inside buildings".

2 Normative references

The following standards contain the provisions which, through reference in this Part, constitute the provisions of this Part. For dated references, subsequent amendments (excluding corrections) or revisions do not apply to this Part.

However, the parties who enter into agreement based on this Part are encouraged to investigate whether the latest versions of these documents are applicable. For undated reference documents, the latest versions apply to this Part.

GB/T 1033-1986, Test method for density and relative density of plastics (eqv ISO/DIS 1183.1984)

GB/T 2828.1-2003, Sampling procedures for inspection by attributea-
Part1.Sampling schemes indexed by acceptance quality limit(AQL) for lot-
by-lot inspection (ISO 2859-1.1999, IDT)

GB/T 2918-1998, Plastics - Standard atmospheres for conditioning and
testing (idt ISO 291.1997)

GB/T 5836.1-2006, Unplasticized poly (vinyl chloride) (PVC-U) pipes for soil
and waste discharge inside buildings

GB/T 8801, Test method for unplasticized polyvinyl chloride (PVC-U) fittings
by falling

GB/T 8802-2001, Thermoplastics pipes and fitting - Determination of Vicat
softening temperature (eqv ISO 2507.1995)

GB/T 8803-2001, Injection-moulded unplasticized poly (vinyl chloride) (PVC-
U), chlorinated poly (vinyl chloride) (PVC-C), acrylonitrile-butadiene-styrene
(ABS) and acrylonitrile-styrene-acrylester (ASA)

GB/T 8806, Plastics piping systems - Plastics components - Determination
of dimensions (GB/T 8806-1988, eqv ISO 3126.1974)

GB/T 19278-2003, General terms and their definitions of thermoplastic pipes,
fittings and valves

HG/T 3091-2000, Rubber seals. Joint rings for water supply, drainage and sewerage pipelines. Specification for materials (idt ISO 4633.1996)

QB/T 2568-2002, Solvent cements for unplasticized poly (vinyl chloride) (PVC-U) plastic piping system

3.1 Definitions

The terms and definitions defined in GB/T 19278-2003 and the followings apply to this Part of GB/T 5836.

3.1.1 wall thickness at main body of the fitting (e1)

the thickness at any point other than the connection part of the fitting, in millimeters (mm)

3.2 Symbols

The following symbols apply to this Part of GB/T 5836. See the relevant illustrations for their meanings.

A Cooperative length

d_e Outer diameter of any point

d_{em} Average outer diameter

d_n Normative outer diameter

d_s Socket normative diameter

d_{sm} Socket average inner diameter

e_y Wall thickness of any point

e₁ Wall thickness of fitting main body

e₂ Socket wall thickness

± 2)°C for 24 h in accordance with the provisions of GB/T 2918-1998, and tested under this condition.

7.2 Color and appearance

Directly observe with naked eyes.