

ICS 23.040.20

CCS G 33



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

GB/T 19812.5-2019

**Plastic equipment for water saving irrigation -- Part 5:
Sub-surface drip irrigation pipe**

Issued on: August 30, 2019

Implemented on: March 1, 2020

**Issued by: State Administration for Market Regulation, China National
Standardization Administration**

Table of Contents

Foreword

1 Scope

2 Normative references

3 Terms and definitions

Foreword

1 Scope

2 Normative references

3 Terms and definitions

Foreword

GB/T 19812 "plastic water-saving irrigation equipment" is divided into five parts.

--- Part 1. Single-wing labyrinth drip irrigation belt;

--- Part 2. Pressure-compensated dripper and drip irrigation pipe;

--- Part 3. In-line drip irrigation pipe and drip irrigation belt;

---Part 4. Polyethylene (PE) hoses;

--- Part 5. Buried drip irrigation pipe.

This part is the fifth part of GB/T 19812.

This part is drafted in accordance with the rules given in GB/T 1.1-2009.

This section uses the redrafting method with reference to ISO 9261.2004 "Technical specifications and test methods for drip and drip irrigation pipes for agricultural irrigation equipment.

The degree of conformity with the ISO 9261.2004 is not equivalent.

1 Scope

This part of GB/T 19812 specifies the terms and definitions, markings, materials, requirements, and tests for buried drip irrigation pipes (hereinafter referred to as drip irrigation pipes).

Sample and test conditions, test methods, inspection rules, marking, packaging, transportation and storage.

This section applies to buried drip irrigation pipes that use polyolefin as the main raw material to transport irrigation water.

2 Normative references

The following documents are indispensable for the application of this document. For dated references, only dated versions apply to this article.

Pieces. For undated references, the latest edition (including all amendments) applies to this document.

GB/T 2828.1-2012. Sampling procedures for counting sampling - Part 1. Quantitative inspection by batches

Plan (ISO 2859-1.1999, IDT)

GB/T 2918-2018 Standard environment for conditioning and testing of plastic specimens (ISO 291.2008, MOD)

Thermoplastics -- Determination of tensile properties of thermoplastic pipes - Part 3. Polyolefin pipes (ISO 6259-3.

1997, IDT)

GB/T 8806-2008 Determination of dimensions of plastic parts for plastics piping systems (ISO 3126.2005, IDT)

GB/T 15819-2006 Test method for environmental stress cracking sensitivity caused by plugged pipe fittings for polyethylene (PE) pipes for irrigation

Legal and technical requirements (ISO 8796.2004, MOD)

GB/T 17187-2009 Technical specifications and test methods for drip and drip irrigation pipes for agricultural irrigation equipment (ISO 9261.2004,

IDT)

GB/T 19278-2018 General terms and definitions for thermoplastic pipes, fittings and valves

GB/T 19466.6-2009 Plastic Differential Scanning Calorimetry (DSC) Part 6. Oxidation induction time (isothermal OIT) and oxygen

Determination of the induced temperature (dynamic OIT) (ISO 11357-6.2008, MOD)

GB/T 19812.3-2017 Plastic water-saving irrigation equipment - Part 3. Inlaid drip irrigation and drip irrigation

SL571-2013 Water-saving irrigation equipment hydraulic basic parameters test method

3 Terms and definitions

GB/T 17187-2009, GB/T 19278-2018, GB/T 19812.3-2017 and the following terms and definitions apply

In this document.

3.1

Submerged drip irrigation pipe sub-surfacedripirrigationpipe

Drip irrigation pipe with anti-negative pressure blocking function under a certain soil depth.

3.2

Negative pressure blockage negativepressureplugging/negativepressureblockage

During the use of the drip irrigation tube, the soil particles around the drip hole are sucked into the drip channel in the drip element due to the negative pressure, causing the drip irrigation tube to drip.

The dripping function of the water component does not satisfy the required phenomenon.

GB/T 19812.5-2019

Plastic equipment for water saving irrigation - Part 5. Sub-surface drip irrigation pipe

ICS 23.040.20

G33

National Standards of People's Republic of China

Plastic water saving irrigation equipment

Part 5. Buried drip irrigation pipe

Plasticequipmentforwatersavingirrigation-

Part 5. Sub-surfacedripirrigationpipe

(ISO 9261.2004, Agriculturalirrigationequipment-Emittersand

emitpipe-Specificationandtestmethods, NEQ)

Published on.2019-08-30

2020-03-01 implementation

State market supervision and administration

China National Standardization Administration issued

Foreword

GB/T 19812 "plastic water-saving irrigation equipment" is divided into five parts.

- Part 1. Single-wing labyrinth drip irrigation belt;
- Part 2. Pressure-compensated dripper and drip irrigation pipe;
- Part 3. In-line drip irrigation pipe and drip irrigation belt;
- Part 4. Polyethylene (PE) hoses;
- Part 5. Buried drip irrigation pipe.

This part is the fifth part of GB/T 19812.

This part is drafted in accordance with the rules given in GB/T 1.1-2009.

This section uses the redrafting method with reference to ISO 9261.2004 "Technical specifications and test methods for drip and drip irrigation pipes for agricultural irrigation equipment.

The degree of conformity with the ISO 9261.2004 is not equivalent.

1 Scope

This part of GB/T 19812 specifies the terms and definitions, markings, materials, requirements, and tests for buried drip irrigation pipes (hereinafter referred to as drip irrigation pipes).

Sample and test conditions, test methods, inspection rules, marking, packaging, transportation and storage.

This section applies to buried drip irrigation pipes that use polyolefin as the main raw material to transport irrigation water.

2 Normative references

The following documents are indispensable for the application of this document. For dated references, only dated versions apply to this article.

Pieces. For undated references, the latest edition (including all amendments) applies to this document.

GB/T 2828.1-2012.Sampling procedures for counting sampling - Part 1. Quantitative inspection by batches

Plan (ISO 2859-1.1999, IDT)

GB/T 2918-2018 Standard environment for conditioning and testing of plastic specimens (ISO 291.2008, MOD)

Thermoplastics -- Determination of tensile properties of thermoplastic pipes - Part 3. Polyolefin pipes (ISO 6259-3.