

ICS 29.035.20

CCS K 15



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

GB/T 41720-2022

Heat-shrinkable chlorinated polyolefin sleeving

Issued on: October 14, 2022

Implemented on: May 1, 2023

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

Table of Contents

foreword
1 Scope
2 Normative references
3 Terms and Definitions
4 Test conditions
5 Technical requirements

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 revised and adopted IEC 60684-3-205.2011 "Insulated Hose Part 3. Specifications for Various Types of Hose Part 205. Resistance

Heat Shrinkable Chlorinated Polyolefin Tubing with Nominal Shrinkage Ratios of 1.7.1 and 2.1".

Compared with IEC 60684-3-205.2011, this document has made the following structural adjustments.

--- Added "Terms and Definitions" chapter;

--- Chapter 5 corresponds to Chapter 1, Chapter 5, Chapter 7 and Tables 1 to 6 in IEC 60684-3-205.2011, where the first paragraph corresponds to

Chapter 5 of IEC 60684-3-205.2011, the second paragraph corresponds to Chapter 7 of IEC 60684-3-205.2011, and the third paragraph corresponds to

IEC 60684-3-205.2011 Chapter 1, paragraphs 2 to 4;

--- Chapter 6 corresponds to the test methods in Table 3 and Table 6 in IEC 60684-3-205.2011 and the remarks in the 6th column;

--- 7.4 corresponds to Chapter 6 in IEC 60684-3-205.2011.

The technical differences between this document and IEC 60684-3-205.2011 and their reasons are as follows.

--- Deleted the "naming" chapter in IEC 60684-3-205.2011, and deleted the normative reference to IEC 60757 (see

IEC 60684-3-205.2011 Chapter 3), in line with my country's national conditions;

--- Deleted the long-term aging elongation of performance requirements in IEC 60684-3-205.2011 (see IEC 60684-3-205.2011

Table 3), in line with my country's national conditions;

--- Deleted S-1714, H-520, O-1176 and O-142 of the fluid requirements in IEC 60684-3-205.2011 (see

IEC 60684-3-205.2011 Table 5), in line with my country's national conditions;

--- Added the soaking time and the completion time of the selected fluid in the test method chapter (see 6.12) to meet the national conditions of our country;

--- Added a chapter on inspection rules (see Chapter 7) and the normative reference document GB/T 2828.1-2012, for inspection items, sampling

The scheme and judgment rules are stipulated to facilitate the standardization of product inspection;

--- Added a chapter on marking, packaging, transportation and storage (see Chapter 8) to facilitate specification of product marking, packaging, transportation and storage requirements.

The following editorial changes have been made to this document.

--- In order to coordinate with my country's technical standard system, the standard name is changed to "Heat Shrinkable Chlorinated Polyolefin Pipe";

--- Replace the unit "K" with the unit " degrees C".

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

1 Scope

This document specifies the technical requirements, test methods, inspection rules, and marking, packaging, transportation and storage of heat-shrinkable chlorinated polyolefin pipes.

This document applies to flame retardant, heat-shrinkable chlorinated polyolefin pipes with nominal shrinkage ratios of 1.7.1 and 2.1 and service temperature of 120°C.

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 1690-2010 Test method for liquid resistance of vulcanized or thermoplastic rubber (ISO 1817.2005, MOD)

Note. There is no technical difference between the quoted content of GB/T 1690-2010 and the quoted content of ISO 1817.2005.

GB/T 2828.1-2012 Counting Sampling Inspection Procedures Part 1.Lot-by-Lot Inspection Sampling Retrieved by Acceptance Quality Limit (AQL)

Plan (ISO 2859-1.1999, IDT)

GB/T 7113.1-2014 Insulated hoses - Part 1.Definitions and general requirements (IEC 60684-1.2003, MOD)

Note. There is no technical difference between the quoted content of GB/T 7113.1-2014 and IEC 60684-1.2003.

GB/T 7113.2-2014 Insulated Hose Part 2.Test Methods (IEC 60684-2.2003, MOD)

Note. There is no technical difference between the quoted content of GB/T 7113.2-2014 and the content of IEC 60684-2.2003.

Note. GB/T 19275-2003 Evaluation of the potential biodegradation and disintegration ability of materials under the action of specific microorganisms (ISO 846.1997, NEQ)

3 Terms and Definitions

There are no terms and definitions that need to be defined in this document.

4 Test conditions

Unless otherwise specified, heat shrinkable chlorinated polyolefin pipes shall be shrunk at 175°C +/- 3°C in an oven with forced air circulation

Test after 5min+/-1min.

5 Technical requirements

In addition to the general requirements specified in GB/T 7113.1-2014, heat-shrinkable chlorinated polyolefin pipes should also comply with Tables 1 to 6 requirements.

The breakdown voltage shall be tested in accordance with the provisions of Chapter 22 of GB/T 7113.2-2014, and the average value of the breakdown voltage shall comply with the

provisions of Table 4.

The boost rate is 500V/s.

The inner diameter of the heat-shrinkable chlorinated polyolefin tube should be 102mm, and the standard color is black. Except for the sizes or colors specified in this document, in

Other sizes or colors may be added, provided that the provisions of Table 3, Table 4, Table 5 and Table 6 (if applicable) are met. The material in this document is not particularly

With limitations, materials other than chlorinated polyolefins may be used as long as the performance requirements of this document are met.