

ICS 83.060

CCS G 40



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

GB/T 39699-2020

**Rubber. Identification of polymers. Pyrolytic
gas-chromatographic method using mass-spectrometric
detection**

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Standardization Administration**

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1629 is a grouping of rubber, but not limited to the following groups of rubber:

Foreword

This standard is in accordance with GB/T

Drafting of the rules given in 1:1-2009:

The translation method used in this standard is equivalent to ISO

17257:2020 "Identification of Rubber Polymers by Pyrolysis Gas Chromatography-Mass Spectrometry":

The Chinese standards that have a consistent correspondence with the international standards cited in this standard are as follows:

---GB/T

3516-2006 Determination of rubber solvent extract (ISO

1407:1992, MOD);

---GB/T

5576-1997 Rubber and latex nomenclature (ISO

1629:1995, IDT):

This standard has made the following editorial changes:

---Added warning words:

--- Modify the format of the table in the appendix:

This standard was proposed by the China Petroleum and Chemical Industry Federation:

This standard is organized by the National Rubber and Rubber Products Standardization

Technical Committee (SAC/TC

35) Concentration:

Drafting organizations of this standard: Yiweiyi Rubber Research Institute Co., Ltd., Wanli Tire Co., Ltd., Anhui Jiatong Passenger Radial Tire

Co., Ltd., Beijing Physical and Chemical Analysis and Testing Center, Guangzhou Synthetic Materials Research Institute Co., Ltd., Double Coin Group Shanghai Tire Research Institute Co., Ltd:

Company, Weihai Junle Tire Co., Ltd., Double Star Group Co., Ltd., Shandong Huasheng Rubber Co., Ltd., Sailun Group Co., Ltd.,

Fengshen Tire Co., Ltd., Beijing Rubber Research Institute Rubber Tire Testing Technology Service Co., Ltd., Beijing Rubber Industry Research and Design Institute Co., Ltd:

the company:

1 Scope

This standard specifies methods for identifying rubber types by analyzing rubber cracked products by pyrolysis gas chromatography/mass spectrometry:

This standard applies to raw rubber, vulcanized rubber or unvulcanized rubber: These rubbers can be a single rubber or two or more rubbers:

Rubber and rubber: This standard cannot be used to detect and identify certain types of rubber with a content of less than 10% in rubber:

The types of rubber identified in this standard are not limited to the rubbers given in Chapter 4:

2 Normative references

The following documents are indispensable for the application of this document: For dated reference documents, only the dated version applies to this article

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

ISO

1407 Determination of rubber solvent extract (Rubber-Determination

of

solvent

extract)

ISO

1629 Rubber and latex nomenclature (Rubber and latices-Nomenclature)

3 Terms and definitions

No terms and definitions are listed in this document:

The website of the terminology database used in the standardization work maintained by ISO and IEC is as follows:

---ISO online browsing platform: <https://www.iso.org/obp>;

---IEC Electrical Engineering Encyclopedia: <http://www.electropedia.org/>

4 Rubber classification

According to ISO

1629 is a grouping of rubber, but not limited to the following groups of rubber:

4:1 Group M

4:1:1 Chlorinated polyethylene (CM):

4:1:2 Chlorosulfonated polyethylene (CSM):

4:1:3 Ethylene-propylene copolymer (EPM) and ethylene-propylene-diene terpolymer (EPDM):

This standard cannot distinguish between these two types of rubber:

4:1:4 Fluorine rubber (FKM) with fluorine, perfluoroalkyl or perfluoroalkoxy substituents in the polymer chain:

This standard cannot distinguish between these rubbers:

4:2 Group O

4:2:1 Polyepichlorohydrin (CO), epichlorohydrin-ethylene oxide binary copolymer (ECO), epichlorohydrin-ethylene oxide-alkyl condensation

Glyceryl ether terpolymer (GECO):

17257:2020

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