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

**GB/T 20025.4-2026**

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**Rubber and plastics hoses and hose assemblies for automotive  
air conditioning - Specification - Part 4: Low vibration  
transmission type for refrigerant 1234yf**

汽车空调用橡胶和塑料软管及软管组合件 规范 第4部分：耐制冷剂1234yf的低振  
动传递型

**(English Translation)**

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### Foreword

This document complies with the provisions of GB/T 1.1-2020 "Standardization Work Guidelines Part 1: Structure and Drafting Rules of Standardization Documents".

Drafting.

This document is Part 4 of GB/T 20025. GB/T 20025 has the following parts published.

---GB/T 20025.2 Rubber and plastic hoses and hose assemblies for automotive air conditioning systems, resistant to refrigerant 134a;

---GB/T 20025.3 Specification for Rubber and Plastic Hoses and Hose Assemblies for Automotive Air Conditioning - Part 3: Refrigeration Agent 1234yf;

---GB/T 20025.4 Specification for Rubber and Plastic Hoses and Hose Assemblies for Automotive Air Conditioning - Part 4: Refrigerant Resistance this document is equivalent to ISO 8066-4:2023 "Rubber and plastic hoses and hose assemblies for automotive air conditioning - Part 4.

Low vibration transmission type resistant to refrigerant 1234yf.

The following minimal editorial changes have been made to this document.

---Notes have been added to Chapter 8.

Please note that some content in this document may involve patents. The issuing organization of this document assumes no responsibility for identifying patents.

This document was proposed by the China Petroleum and Chemical Industry Federation.

This document is under the jurisdiction of the National Technical Committee on Standardization of Rubber and Rubber Products (SAC/TC35).

### Introduction

Automotive air conditioning rubber and plastic hoses and hose assemblies are classified according to the refrigerant they transport. Commonly used refrigerants include...

134a and 1234yf, etc. GB/T 20025 was drafted based on ISO 8066 and consists of three parts.

---GB/T 20025.2 Rubber and plastic hoses and hose assemblies for automotive air conditioning systems, resistant to refrigerant 134a. The purpose is to meet...

Requirements for the use of rubber and plastic hoses and hose assemblies for automotive air conditioning systems that transport refrigerant 134a.

---GB/T 20025.3 Specification for Rubber and Plastic Hoses and Hose Assemblies for Automotive Air Conditioning - Part 3: Refrigerants 1234yf. The purpose is to meet the requirements of automotive air conditioning rubber and plastic hoses and hose assemblies for conveying refrigerant 1234yf.

Use demand.

Low vibration transmission type. Designed to meet the requirements of low vibration transmission for automotive air conditioning rubber and plastic hoses used for conveying refrigerant 1234yf.

And the usage requirements of hose assemblies.

Rubber and plastic hoses and hose assemblies for automotive air conditioning Specification Part 4: Refrigerant 1234yf Low vibration transmission type Warning. This document should be used by personnel with practical experience in formal laboratory work. This document does not address all potential safety issues.

Users are responsible for taking appropriate safety and health measures and ensuring compliance with relevant national regulations.

## 1 Scope

This document specifies the rubber hoses and hose assemblies used in automotive air conditioning systems for low-pressure recirculation of gaseous R1234yf (tetrafluoropropylene).

Requirements for components. The design of hoses and hose assemblies reduces vibration transmission between the engine compartment and the passenger compartment. Operating temperature range.

-40°C~ 80°C.

Because the connection between the hose and the fitting is critical in the application, it is specified that the hose used in actual operation should be used in the test.

Requirements for the connector.

## 2 Normative references

The contents of the following documents, through normative references within the text, constitute essential provisions of this document. Dated citations are not included.

For references to documents, only the version corresponding to that date applies to this document; for undated references, the latest version (including all amendments) applies.

This document.

semblies-Hydrostatictesting) Note. GB/T 5563-2025 Hydrostatic test method for rubber and plastic hoses and hose assemblies (ISO 1402:2021, IDT) Note. GB/T 3141-1994 Industrial liquid lubricants - ISO viscosity classification (ISO 3448:1992, IDT) ISO 4671 Methods of measuring the dimensions of rubber and plastic hoses and hose assemblies.

**Note:** GB/T 9573-2013 Rubber and plastic hoses and hose assemblies - Methods for measuring the dimensions of hoses and the length of hose assemblies (ISO 4671:2007).

IDT)

**Note:** GB/T 24134-2009 Evaluation of ozone resistance under static conditions for rubber and plastic hoses (ISO 7326:2006, IDT) (assemblies-Vocabulary) Note. GB/T 7528-2025 Terminology for rubber and plastic hoses and hose assemblies (ISO 8330:2022, IDT) ISO/T R11340 Classification of External Leaks in Hydraulic Systems for Rubber and Rubber Products Hydraulic Hose Fittings Note. GB/Z 18427-2001 Hydraulic hose assemblies - Classification of external leakage in hydraulic systems (ISO/T R11340.1994, IDT)