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

GB/T 22371-2024

Replacing GB/T 22371-2008

**Environmental protection requirements for facsimile machines
and multi-function facsimile machines**

传真机、多功能复合型传真机环境保护要求

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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 for standardization documents" Drafting. This document replaces GB/T 22371-2008 "Environmental protection requirements for fax machines and multi-function fax machines" and GB/T 22371- Compared with.2008, in addition to structural adjustments and editorial changes, the main technical changes are as follows:

- a) The relevant contents of "Scope" have been changed (see Chapter 1, Chapter 1 of the.2008 edition);
- b) Deleted the relevant content of "Manufacturer's Commitment" (see 4.1.1 of the.2008 edition);
- c) Deleted the relevant content of "Durability Information" (see 4.1.4 of the.2008 edition);
- d) Changed the relevant requirements of "recyclable design" (see 4.1, 4.2 of the.2008 edition);
- e) The requirement of "reducing the types of plastic materials" has been deleted (see 4.3 of the.2008 edition);
- f) Changed the relevant requirements for "Plastic housing and box-type parts materials" (see 4.2, 4.4 of the.2008 edition);
- g) Changed the relevant requirements of "Marking of Plastic Parts" (see 4.3,

1 Scope

China's national environmental protection requirements for fax machines and multi-function machines with a fax function. It specifies the environmental requirements, the test methods and the assessment for these products, covering their design, materials, energy consumption, emissions, consumables and end-of-life treatment. Office imaging equipment is regulated on environmental grounds for reasons that go beyond electricity. The machine is a source of indoor air pollutants while it is running: the fuser drives volatile organic compounds and styrene off the toner and the paper, the corona and the fuser generate ozone, and the paper and the toner produce fine dust and particles, all of it in an occupied

room with the machine often within a metre of someone's desk. It also carries the substances restricted in electronic equipment, it consumes a cartridge every few thousand pages, and it becomes waste containing both. So the requirements are grouped accordingly. Design and material requirements cover the restricted substances, the marking of plastics for recycling, the avoidance of glued or welded joints that prevent disassembly, and the availability of spare parts and consumables that make repair and refill possible. Emission requirements set the limits for volatile organic compounds, benzene, styrene, ozone and dust, measured in a chamber under defined printing conditions. Energy requirements cover the typical consumption and the sleep behaviour. Consumable requirements address the cartridge and its recovery, and the end-of-life requirements address disassembly and the information given to the recycler. Issued on 31 December 2024 and in force since 1 July 2025, it replaces GB/T 22371-2008.

This document specifies the environmental protection technical requirements for fax machines and multi-function fax machines, and describes the corresponding test methods. This document applies to fax machines and multifunction devices that use electrostatic recording, inkjet recording or thermal recording (including thermal transfer) methods. Design and manufacture of multi-function fax machines.

2 Normative references

The contents of the following documents constitute the essential clauses of this document through normative references in this document. For referenced documents without a date, only the version corresponding to that date applies to this document; for referenced documents without a date, the latest version (including all amendments) applies to This document.

GB/T 16288 Marking of plastic products

GB/T 16685-2008 Information technology office equipment printing equipment throughput measurement method Class 1 and Class 2 printers

GB/T 18313-2001 Acoustics Measurement of airborne noise from information technology equipment and communication equipment

GB 21521-2014 Energy efficiency limit values and energy efficiency grades for copiers, printers and fax machines

GB/T 22372 Monochrome laser printer test version

GB/T 23986.2 Volatile organic compound (VOC) and/or semi-volatile organic compound (SVOC) content of paints and varnishes Determination of chlorine-containing substances Part

3 Terms and definitions

The following terms and definitions apply to this document.

3.1 polymer A substance composed of molecules characterized by repeated connections of one or more atoms or groups of atoms (structural units). The molecular weight is large enough that the overall properties are not significantly changed by adding or removing one or more structural units.

3.2 copolymer A polymer formed from more than one monomer. [Source: GB/T 2035-2008, 2.214]

3.3 Flame retardant Substances which appreciably retard the spread of fire.