

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

HJ 2549-2018

**Technical requirement for environmental labeling products -
Household dishwasher
(English Translation)**

Issued on: July 12, 2018

Implemented on: October 1, 2018

Issued by: Ministry of Ecology and Environment

Table of Contents

Foreword
1 Scope of application
2 Normative references
3 Terms and definitions
3.1 Dishwasher
3.2 Recyclability rate
3.3 Shutdown mode off-mode
3.4 Standby mode left-on mode
4 Basic requirements
5 Technical content
5.1 Product Environmental Design Requirements
5.2 Product production process requirements
5.3 Product requirements
5.4 Product Packaging Requirements
5.5 Product recycling requirements
5.6 Product Description Requirements
6 Test methods

Foreword

To implement the Environmental Protection Law of the People's Republic of China, reduce the environmental pollution of household dishwashers during production, use and recycling and the impact of human health, the development of this standard.

This standard proposes a ring for the environmental design, production, use, reuse, packaging, recycling and product description of household dishwashers.

Environmental protection requirements.

This standard is the first release.

This standard was formulated by the Science and Technology Standards Department of the Ministry of Ecology and Environment.

This standard is mainly drafted by. China-Japan Friendship Environmental Protection Center, Ningbo Product Quality Supervision and Inspection Institute, Beijing Labor Institute of Protection Science.

This standard is approved by the Ministry of Ecology and Environment on July 12, 2018.

This standard has been implemented since October 1, 2018.

This standard is explained by the Ministry of Ecology and Environment.

Environmental Labeling Products Technical Requirements Household Dishwashers

1 Scope of application

This standard specifies the terms and definitions, basic requirements, technical content and testing methods of household dishwasher environmental labeling products.

This standard applies to household electric dishwashers that use hot and/or cold water for washing and rinsing dishes, cutlery and other utensils.

The rated voltage of the single-phase appliance does not exceed 250V, and the rated voltage of other appliances does not exceed 480V.

2 Normative references

The contents of this standard refer to the terms in the following documents. For undated references, the latest edition applies to this standard.

GB/T 4214.3 Household and similar electrical appliances - Test methods for noise - Particular requirements GB/T 16288 logo for plastic products GB/T 18455 packaging recycling mark GB/T 20290 Household electric dishwasher performance test method GB/T 23685 General technical requirements for recycling of waste electrical and electronic products GB/T 26572 Limit requirements for restricted substances in electrical and electronic products GB/T 29784.2 Determination of polycyclic aromatic hydrocarbons - Part 2. Gas chromatography - mass spectro GB/T 29786 Determination of phthalates in electrical and electronic products - Gas chromatography - mass spectrometry GB/T 32355.2 Evaluation of the recyclability of electric and electronic products - Part 2. washing machines, televisions and microcomputers HJ 2537 Environmental Labeling Product Technical Requirements Waterborne Coatings QB/T 1520 electric and dishwasher for household and similar purposes

3 Terms and definitions

The following terms and definitions apply to this standard.

3.1 Dishwasher

Washing dishes such as bowls, plates, glassware, cutlery, and cooking utensils by chemical, mechanical, thermal, and electrical methods.

Rinsing and drying machines, at the end of the program, the dishwasher may or may not

perform a specific drying operation.

[GB/T 20290-2016, definition 3.1]

3.2 Recyclability rate

The sum of the quality of the reusable part and the recycled part of the product (excluding the energy recovery part) and electronic and electrical the percentage of the total mass of the product.

[GB/T 32355.2-2015, definition 3.1]

3.3 Shutdown mode off-mode

Connect to the power source according to the manufacturer's instructions, accessible to the user through the appliance and intended to be used by the terminal during normal use.

When the user-operated control or switch is turned off, all controls except the power switch cannot be operated.

[QB/T 1520-2013, definition 3.7]

3.4 Standby mode left-on mode

After the program ends, the end user does not intervene any of them, and the dishwasher can maintain the lowest power consumption status indefinitely (standby the mode does not include the reservation program).

[QB/T 1520-2013, definition 3.8]

4 Basic requirements

4.1

The product should meet the requirements of the corresponding quality, safety and hygiene standards.

4.2

Pollutant emissions from product manufacturing enterprises shall comply with national and local standards for pollutant discharge.

4.3

Product manufacturers should strengthen clean production in the production process.

5.1.1 Easy to recycle design

5.1.1.1

The product recyclability should be no less than 75%.

5.1.1.2

Plastic parts with a mass greater than 25g or a surface area exceeding 200mm² shall be marked in accordance with the requirements of GB/T 16288.

5.1.2 Restricted/disabled substance requirements

5.1.2.1

Lead (Pb), cadmium (Cd), mercury (Hg), hexavalent chromium (Cr⁶), polybrominated biphenyls (PBBs) and polybrominated diphenyl ethers (PBDEs) in products the content should meet the requirements of GB/T 26572.

5.1.2.2

The outer casing of the product, the substrate of the circuit board, and the power cord shall not use short-chained chlorinated paraffins (SCCPs), and the content shall not be greater than the plastic zero.

0.1% of the total parts.

5.1.2.3

Plastic parts with a mass greater than 25g do not use chlorine-containing polymers, do not contain tris(2-chloroethyl) phosphate (TCEP), Flame retardant of tris(2-chloropropyl) phosphate (TCPP), tris(2,3-dichloropropyl) phosphate (TDCP) and hexabromocyclododecane.

5.1.2.4

Except for the power cord, the phthalate esters listed in Appendix A are not used in plastic parts with a mass greater than 25g.

More than 1000mg/kg.

5.1.2.5

The maximum allowable limit of benzo[a]pyrene in the product casing, buttons and power cord is 20 mg/kg, and the sixteen items listed in Appendix B the total amount of cyclic aromatic hydrocarbons (PAHs) does not exceed 200 mg/kg.

5.1.3 The coating used in the product shall meet the requirements of the anti-corrosion coating in HJ 2537.

5.2 Product production process requirements