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

SN/T 2820-2011

**Food contact materials for export. Polymers. Test methods for
overall migration into aqueous food simulants by cell**

食品接触材料 高分子材料 水基食品模拟物中总迁移量的试验方法 测试池法

(English Translation)

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Foreword

This standard was drafted in accordance with GB/T 1.1-2009 given rules.

This standard is identical with EN1186-5:2002 "food contact materials and plastic products - Part 5. water-based food simulants in total Standard Test Method for migration test cell method "(in English).

This standard adopts EN1186-5:2002, the editorial changes were made, the main differences are as follows.

- Removed EN1186-5:2002 in the previous page, directory, foreword, introduction, appendix ZA, references and after page;
- "This standard" instead of EN1186-5. in 2002, "This part of this standard";
- References EN1186-1:2002 is equivalent to using industry-standard SN/T 2824-2011, cited EN1186-1:2002 accordingly adjusted in accordance with the provisions of number SN/T 2824-2011 the provisions of the order of arrangement;
- For the test procedure described in more rational, and in accordance with the requirements of the standard to write, the original Chapter 7, "number of samples" and 7.1 "Sample cut" Chapter 6, "Sample Preparation" incorporated, and were changed to Article 6.2 and 6.3; accordingly, the former Chapter 8 to Chapter 7;
- Chapter 9 of the original 9.1 "Calculation Method" and 9.2 "precision" were changed to Chapters 8 and 9; each chapter number corresponding provisions change;
- Instead of numbers with decimal point as the decimal comma ",", ". ", ";
- Concentration change according to the requirements of National Standards Compilation representation;
- "mL" changed to "mL" representation;
- Note No provisions in accordance with our National Standards Compilation be adjusted

as required;

--- The formula for calculating the relevant mass units "g" to "mg", delete the formula unit conversion factor "1000." this standard is proposed and managed by the National Certification and Accreditation Administration Committee.

This standard was drafted. People's Republic of China Ningbo Exit Inspection and Quarantine.

1 Scope

This standard specifies the method for determination of plastics intended for food contact surface in a water-based food simulants overall migration. This method Use test cell at 70 °C or less (including 70 °C) within the selected time and temperature of the food-contact surface is exposed to the selected food simulants.

This standard is most suitable for a film and a sheet of plastic, is particularly suitable for a multi-layer material consisting of one or more surfaces, or surfaces having such layers Different migration characteristics, which intended to food contact surfaces must be food simulant migration test.

2 Normative references

The following documents for the application of this document is essential. For dated references, only the dated version suitable for use herein Member. For undated references, the latest edition (including any amendments) applies to this document.

GB/T 12804 Laboratory glassware cylinder GB/T 12808 Laboratory glassware single marking pipette Directory SN/T 2824-2011 the export of food contact materials - Polymer total migration test conditions and methods of selection Principle 3 After the determination of the quality of the food simulant evaporation of non-volatile residue, obtained overall migration plastic sample Nonvolatile substances.

Based on the conditions of use determine the selection test conditions and food simulants, see SN/T 2824-2011 Chapter 5 - Chapter 7.

After at temperatures up to 70 °C, and the sample was exposed to the test about 2.5dm² pool food simulants, until the required time, from Remove the sample pool. The food simulant evaporated to dryness, weight determination of the quality of non-volatile residue, and the sample table in milligrams per square decimeter Area represents (mg/dm²).

NOTE: In some cases, the steps in this standard can also be used above 70 °C temperature exposure.

4 Reagents and materials

The following reagent quality and preparation see SN/T 2824-2011 Chapter 5.

4.1

distilled water or the like homogeneous water (simulant A).

4.2 30g/L solution (mimetics B) acetate.

4.3 10% (volume fraction) ethanol solution (mimetics C).

4.4

for alcohol exceeds 10% (volume fraction) of a liquid or drink alcohol mimics.

Note: When in contact with materials and articles intended to alcohol more than 10% (volume fraction) of liquids or beverages, with significant concentrations of aqueous ethanol test.

5 Apparatus

5.1

cutting board, clean smooth glass, metal or plastic plate, with an area sufficient for the preparation of samples, 250mm x 250mm