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

SN/T 2817-2011

**Food contact materials for export. Polymers. Test methods for
overall migration into olive oil simulant by cell**

食品接触材料 高分子材料 橄榄油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 EN1186-4:2002 "food contact materials and articles - Plastics - Part 4. olive oil overall migration Test method to test cell method "(in English).

This standard adopts EN1186-4:2002 when the editorial changes were made, the main differences are as follows.

- Removed EN1186-4:2002 in the previous page, directory, foreword, introduction, appendix ZA, references and after page;
- "This standard" instead of EN1186-4. 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 No. SN/T 2824-2011 the provisions of the order of arrangement;
- Adjusted Chapter 4 Reagents number and order, and the "note" to the beginning of the chapter introductions to comply with China's chemical Analysis prepared by national standards requirements;
- For the test procedure described in more rational, will 7.3,7.5 and 7.6.1 of the content is subdivided into several one provision;
- EN1186-4. 7.6.2.1 provisions Note 2002 for instrument conditions, it was changed to the corresponding provisions of the text content;
- Instead of numbers with decimal point as the decimal comma ",", ". ", ";";
- "mL" changed to "mL" representation;
- The original article 7.6.2.2, "Note 1" and "Note 2" Content article as text content;
- Note No provisions in accordance with our National Standards Compilation be adjusted as required;

--- Original Chapter 8 8.1 "Calculation Method" and 8.2 "precision" were changed to Chapters 8 and 9; subsequent chapters numbered relative clauses should change;

--- Equation (5) in Chapter 8 MW to MW/1000;

--- Remove Appendix F Notes.

This standard is proposed and managed by the National Certification and Accreditation Administration Committee.

This standard was drafted. People's Republic of China, Ningbo Entry-Zhuhai Entry-Exit Inspection and People's Republic of China Quarantine Bureau.

1 Scope

This standard specifies over 20 °C 100 °C (excluding 100 °C) the temperature and the selected time, a film and a sheet of plastic on a Determination of olive oil in the total amount of surface migration.

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 shall be food simulant migration test.

Note: This method is the use of olive oil and fat mimetic that is prepared, with appropriate modifications also "Other fatty food simulants Food simulant D for call Thing "--- synthetic mixture of triglycerides, sunflower oil and corn oil. These other fatty food simulants will produce different than olive oil methyl ester Methyl ester mimetics chromatogram. Select the appropriate other fatty food simulants methyl ester peaks for the sample extracted from the simulation was carried out Quantitative determination.

This standard applies to most types of plastic.

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 SN/T 2824-2011 the export of food contact materials - Polymer total migration test conditions and methods Selection Guide Principle 3 Determination of mass loss intended for food contact plastic sample basis, the overall migration of plastic derived samples.

According to the conditions of use determines whether the selected test conditions, see SN/T 2824-2011 Chapter 5 - Chapter 7.

In the above 20 °C, less than 100 °C temperature range, the known weight of the sample in a test pool exposed to olive oil when exposed to After the room, removed from the olive oil, olive oil adhered to the surface of dry, re-weighed.

Sample adsorption usually olive oil. The olive oil is extracted, potassium hydroxide hydrolysis of a fatty acid, and boron trifluoride/methanol Complex methylation reaction, is converted to methyl esters by gas chromatographic quantitative assay. Before extracting olive oil is adsorbed by the sample in advance Internal standard heptadecanoic acid triglycerides, in order to ensure the internal standard and extracted olive oil with the same experience for all active substances can be extracted or plastic Reaction components. Since the same internal standard hydrolysis and methylation reaction, compensation correction ineffective hydrolysis and methylation reactions.

After subtracting the samples of olive oil soaked net mass from the initial mass of the sample in (this net quality. of olive oil in a sample taken from the time of Minus the amount of olive oil quality adsorbed on the sample), to obtain the overall migration.

The total mass loss in milligrams per square decimeter sample surface area (mg/dm²) said the overall migration of at least three independent measurement sample knot Reports the average fruit.

Since the sample processing or loss of oil pollution and other reasons, difficult to detect possible errors in the testing process, expected to be a Case sample results are discarded, the same sample to detect four times.