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

SN/T 2735-2010

**Food contact materials. Polymers. Test methods for overall
migration into olive oil food simulants by pouch**

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 袋装法

(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 EN1186-6:2002 "Materials and articles in contact with foodstuffs - Plastics - Part 6. olive oil mimetic total Test Method bagged migration law. " this standard editorial changes were made, the main differences are as follows.

--- Because regardless of the technical content of this standard, the original text previous page, directory, foreword, introduction, Chapter IX, Annex ZA, references and after Page deletion;

--- "This standard" instead of EN1186-6. in 2002 the "European standard" or "This part of this standard";

--- Chapter 2, according to GB/T 1.1-2009 requirements to prepare normative references;

--- The BSEN1186-6:2002 are replaced by references ISO 648 is equivalent to using the GB/T 12808, ISO 4788, etc. into with the use of GB/T 12804;

--- Adjusted Chapter 4 Reagents number and order, and the "note" to delete the beginning of the chapter, in order to comply with our chemical analysis the method requires the preparation of national standards;

--- Fixed EN1186-6:2002 Dui EN1186-1:2002 clauses by reference number error;

--- 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;

--- Instead of numbers with decimal point as the decimal comma ",", ".", ";";

--- "mL" changed to "mL" representation;

--- 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, Xiamen Entry-Exit Inspection and Quarantine, Ningbo People's Republic of China Bureau, People's Republic of China Zhuhai

Entry-Exit Inspection and Quarantine Bureau.

1 Scope

This standard specifies the film or sheet made of standard plastic sample bags, through to plastic bags filled with fatty food simulant, in limited Testing time and temperature (20 °C ~ 100 °C, not including the 100 °C), the inner surface of the bag was measured to migrate fatty food simulants Test methods for overall.

This standard applies to standard bags can be sealed and made of plastic film or sheet by heat or pressure, particularly suitable for testing only make food Product mimetic contact with food contact surfaces to the desired multi-layer composite plastic.

Note: This standard uses olive oil as the fatty food simulant may also be a suitable substitute that is called "simulants D" Other fatty food mold Quasiphysical - synthetic mixture of triglycerides, sunflower oil or corn oil, these fatty food simulant mimics with respect to the use of olive oil will produce different Methyl ester chromatograms, therefore, should select the appropriate methyl ester peaks for the sample extracted from the simulation were quantitatively measured.

This standard does not apply to certain 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 Food contact materials - Polymer overall migration test conditions and methods Selection Guide Principle 3 Overall migration plastic samples to the contact surface mass loss per unit area and the food represents.

Food contact materials and products according to conditions of use to select test conditions, see the SN/T 2824-2011 Chapter 5 - Chapter 7.

A sample of known mass envelope filled with olive oil, in a limited test time and temperature (20 °C ~ 100 °C, not including the 100 °C) under feed Line exposure test, then pour the olive oil, cut Kaifeng bag with absorbent paper to remove the bag attached to the wall of the olive oil, re-weighing of being cut Seal bag.

Sample absorbs a portion of olive oil, this part of the olive oil is extracted to produce fatty acid hydrolysis of potassium hydroxide, and boron trifluoride /Methanol complex methylation reaction, converted to methyl ester, quantitatively measured by gas chromatography. Absorbed by the sample in the extraction of olives Before oil, previously added internal standard heptadecanoic acid triglyceride, it will ensure that the internal standard and the olive oil is extracted with the same experience in the plastics Reactive or extractable

components. Since the internal standard heptadecanoic triglycerides also undergo hydrolysis and methylation reactions, can be offset correction Invalid hydrolysis and methylation processes.

Quality initial sample mass minus the sample absorption olive oil (olive oil leaving the soaking liquid) after the absorption of olive oil and the difference between the quality of the the result is obtained migration into olive oil by total migration.

The total mass loss in milligrams per square decimeter sample surface area (mg/dm²), said a minimum of three independent and parallel determination results flat Mean report the total migration.