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INDUSTRY STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

SN/T 3180-2012

Food contact materials. Polymers. Determination of residual solvent in in plastic film. Gas chromatography

食品接触材料 高分子材料 塑料薄膜中残留溶剂的测定 气相色谱法

(English Translation)

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Foreword

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

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

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

1 Scope

This standard specifies the food contact plastic film static headspace solvent residues - Gas chromatographic method.

This standard applies to the determination of plastic film known in the chemical composition of the solvent residues, the total amount of solvent residue is not present standard measurement range within.

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.

Laboratory use specifications and test methods GB/T 6682 Analysis Principle 3 and in a closed container at a certain temperature, a sample of the volatile components in the gas phase (headspace) and matrix (liquid or solid phase) exists between points with balance. After equilibrium is reached, it will be introduced into the gas phase portion separated by gas chromatography. After calibration standard of known concentration can be measured each volatile the content of the sample. Compared with each other can also be obtained by semi-quantitative analysis results between samples.

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4 Reagents and materials

This standard reagents and water in the absence of other specified requirements, refer to the three water analytical reagent and GB/T 6682 regulations.

4.1 Standard sample residual solvent compound

Residual solvent commercially available compounds of the present method of analysis, the highest concentration that can be obtained. Food contact materials may contain dissolved Agent residue compound as follows.

a) octane;

b) ethyl;

c) butanone;

d) ethanol;

e) benzene;

f) decane;

g) in toluene;

h) butyl acetate.

4.2 Thinner

For the preparation of volatile organic compounds diluted standard solution, the retention time should be consistent with the analytes in the gas chromatograph, the commonly used dilution They include.

a) water;

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