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## NATIONAL STANDARD OF THE PEOPLE'S

# **REPUBLIC OF CHINA**

# 中华人民共和国国家标准

GB/T 5009.58-2003 Replace GB/T 5009.58-1996

# Method for analysis of hygienic standard of polyethylene resin for food packaging 食品包装用聚乙烯树脂卫生标准的分析方法

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#### Foreword

This Standard will replace GB/T 5009.58-1996 Method for analysis of hygienic standard of polyethylene resin for food packaging.

Comparison with GB/T 5009.58-1996, main changes of this Standard as follows:

— Changed the struactural of original standard based on GB/T 20001.4-2001 Rules for drafting standards--Part 4: Methods of chemical analysis.

This Standard is under the jurisdiction of Ministry of Health of the People's Republic of China. This Standard is responsibled by Shanghai Municipal Health Bureau.

This Standard is first issued on 1985, second issued on 1996, this is second version.

### Method for analysis of hygienic standard of polyethylene resin for

### food packaging

#### 1. Scope

This standard specifies the method of measuring the hygiene indexes of polyvinyl reswhere is the raw material for making table wares, food containers, food packaging films, or other utensils used for food.

This standard is applicable to the measurement of the hygiene indexes of polyvinyl reswhere is the raw material for making table wares, containers, food packaging films, or other utensils used for food.

#### 2. Sampling Method

The sample of each batch is 10% of the number of bales, and the sample should be no less than 3 bales when the batch is small. Among the selected bales, sampling tools such as sampling probe will be used to probe into the 3/4 of the depth of each bale to take samples, and the total amount of the sample should be no less than 2kg. The sample should be blended quickly, divided by quartering to be 500g per unit, and put into two clean and dry glass ground wide-mouth bottles. Labels, which the manufacturer's name, product name, batch number and sampling date are written should be stuck to the bottles. One bottle is sent to the laboratory for analyzing, and the other sealed and preserved for two months for the use of arbitration analysis.

#### 3. Loss on Drying

#### 3.1 Principle

The mass lost by the sample when being dried under  $90^{\circ}$ C--95 $^{\circ}$ C is the weight loss on drying, showing the existence of volatile matter.

#### 3.2 Analysis steps

Weigh 5.00g—10.00g of the sample, put it in a flat weighing bottle with constant weight, and its thickness should be no more than 5mm. Then, dry it under  $90^{\circ}$ C--95 $^{\circ}$ C for two hours, and weigh it after 30min in the dryer. The weight loss on drying should be no more than 0.15g/100g.

### **3.3 Calculation of the result**

See formula (1).

Where:

X----Sample' s weight loss on drying, the unit is gram per 100 gram (g/100g);

 $m_1$ ---The mass of the sample and the weighing bottle, the unit is gram (g);

 $m_2$ ---The mass of the sample and weighing bottle with constant weight, the unit is gram (g);

 $m_3$ ---The mass of the sample, the unit is gram (g).



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