

ICS 55.040

CCS A 82



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

**GB 18192-2000**

Replacing GB 18192-2000

---

**Paper based laminated material using for aseptic packaging of  
liquid food**

**(English Translation)**

**Issued on: June 25, 2008**

**Implemented on: October 1, 2008**

---

**Issued by: General Administration of Quality Supervision, Inspection and  
Quarantine of the People's Republic of China, Standardization  
Administration of the People's Republic of China**

## Table of Contents

Foreword

1 Scope

2 Normative references

3 Terms and definitions

### Foreword

This standard replaces GB 18192-2000 "Paper-based composite materials for aseptic packaging of liquid food." Compared with GB 18192-2000, the main changes of this standard are as follows.

- Added the definition of "middle seal sticker";
- Modified the inner plastic film quantitative;
- Added the requirements for materials;
- Change "tensile strength" to "breaking force". Modified physical machinery such as "breaking force", "inner plastic film peel strength" and "stiffness" Performance;
- Divide the "oxygen transmission rate" into two categories. "aluminum foil" and "other barrier materials";
- The requirement of "adhesion between composite plastic film and paper" is cancelled;
- The requirement of "hygienic index of the whole material" is cancelled;
- Added the requirement of "Hygienic Index of Solvent Residue";
- Modified "Sealing Strength Test Method";
- Clearly stipulates the test conditions of "Tensile Force Test";
- Added the requirement of "Sanitary Inspection of Solvent Residues";
- Modified inspection rules;
- Deleted Appendix B and Appendix C of the original standard.

Appendix A of this standard is a normative appendix.

This standard was proposed by China Packaging Federation.

This standard is under the jurisdiction of the National Packaging Standardization Technical Committee.

The main drafting organizations of this standard. Tetra Pak China Co., Ltd., Combibloc (Suzhou) Co., Ltd., Guangxia Jiamei Packaging (Xiamen) Co., Ltd., Qingdao People Printing Co., Ltd., China Packaging Federation.

Participated in the drafting of this standard. Shandong Quanlin Packaging Co., Ltd., Shanghai Tianlong Aseptic Packaging Materials Co., Ltd., Sichuan Weizhi International New Material Co., Ltd., Shandong Xinjufeng Technology Packaging Co., Ltd.

## 1 Scope

This standard specifies the classification, requirements, test methods, inspection rules, signs, packaging, and transportation of paper-based composite materials for aseptic packaging of liquid foods.

Transmission and storage.

This standard is applicable to base paper, compounded with plastic, aluminum foil or other barrier materials, in roll form or in a single production Materials supplied in product form for aseptic filling of liquid food.

## 2 Normative references

The clauses in the following documents constitute the clauses of this standard by being quoted in this standard. For dated reference documents, their subsequent all amendments (not including errata content) or revisions do not apply to this standard, however, encourage all parties to reach an agreement based on this standard Study whether the latest versions of these documents can be used. For undated reference documents, the latest version applies to this standard.

GB/T 191 Graphical signs for packaging, storage and transportation (GB/T 191-2008, ISO 780.:1997, MOD) GB/T 1038 Test method for gas permeability of plastic films and sheets Differential pressure method (GB/T 1038-2000, neq ISO 2556:1997) GB/T 1040.3 Determination of tensile properties of plastics Part 3: Test conditions for films and sheets (GB/T 1040.3-2006, ISO 527-3.:1995, IDT) GB/T 26779.3 Determination of stiffness of paper and paperboard (GB/T 26779.3-1996, eqv ISO 2493:1992) GB/T 2828.1-2003 Sampling inspection procedures by attributes Part 1: Batch inspection sampling searched by acceptance quality limit (AQL) Plan (GB/T 2828.1-2003, ISO 2859-1:1999, IDT) GB/T 3198 Aluminum and aluminum alloy foil GB/T 5009.60 Method for analysis of hygienic standards of polyethylene, polystyrene and polypropylene molded products for food packaging GB/T 6673 Determination of the length and width of plastic films and sheets (GB/T 6673-2001, idt ISO 4592.:1992) GB/T 8808 Peel test method for soft composite plastic materials GB 9685 Hygienic Standard for the Use of Auxiliaries for Food Containers and Packaging Materials GB 9687 Hygienic Standard for Polyethylene Molded Products for Food Packaging GB/T 10004-1998 Retort-resistant composite film, bag (eqvJISZ

1707..1995) GB 11680 Hygienic Standard of Base Paper for Food Packaging QB/T 2358  
Test method for heat sealing strength of plastic film packaging bags

### **3 Terms and definitions**

The following terms and definitions apply to this standard.

Liquid food that can flow in pipes. Including liquids with particles and sauce-like foods.

Encapsulate the sterilized food (beverages, dairy products, etc.) in a sterilized container in an aseptic environment and keep it at room temperature without adding Preservatives can also be packaged with a longer shelf life.

GB/T 18192-2008