

QB

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

QB/T 2358-1998

**Test Methods for Thermal Sealing Strength of Plastic Film
Packaging Bag
(English Translation)**

Issued on: March 27, 1998

Implemented on: December 1, 1998

Issued by: China Light Industry Association

Table of Contents

Foreword...	3
1 Scope...	4
2 Normative References...	4
3 Equipment and Measuring Gauges...	4
4 Specimen...	4
5 Test Procedures...	6
6 Calculation...	6
7 Test Report...	6

Foreword

This Standard was modified on the basis of professional standard ZBY 28004-86 Test Methods for Thermal Sealing Strength of Plastic Film Packaging Bag.

This Standard nonequivalent adopted Japanese industry standard JIS Z 0238-1995 Test Method for Sealed Flexible Packaging Bag.

This Standard added the specimen measurement method; added test conditions in the test report.

This Standard was proposed by Quality Standard Department of China Light Industry Association.

This Standard shall be under the jurisdiction of National Standardization Center of Plastics.

Drafting organization of this Standard. Jilin Plastics Research Institute.

Chief drafting staffs of this Standard. Dong Xiaowei, Gao Yunxue, Yu Yan, Jiang Shulan, and Zhao Lili.

This Standard replaced ZBY 28004-86 since the date of implementation.

Test Methods for Thermal Sealing
Strength of Plastic Film Packaging Bag

1 Scope

This Standard specifies the test methods for thermal sealing strength of plastic film packaging bag.

This Standard is applicable to the determination of thermal sealing strength for various plastic film packaging bags.

2 Normative References

The following standards contain provisions which, through reference in this Standard, constitute provisions of this Standard. At the time of publication, the editions indicated are valid. All standards are subject to revision. The parties who are using this Standard shall explore the possibility of using the latest version of the following standards.

GB 2918-82 Plastics - Standard Atmospheres for Conditioning and Testing

3.1 Equipment

Tensile tester. the actually-measured indication shall be in the range of 15% ~ 85% of the full scale of the dial; and the reading indication error shall be within $\pm 1\%$.

3.2 Measuring gauges

Vernier caliper. accuracy of 0.02mm.

Ruler. accuracy of 1mm.

4.1 Sampling position

As shown in Figure 1, take samples from the side, back, top and bottom of the plastic film packaging bag, and in perpendicular direction of the thermal sealing position; which shall be regarded as the thermal sealing specimen on the side, back, top and bottom of the packing bag.

4.2 Shape and size

Specimen width is (15 ± 0.1) mm; the expansion length is (100 ± 1) mm; if the expansion length is less than (100 ± 1) mm, as shown in Figure 2, splice with the same materials as the bag by adhesive tape, so that the expansion length meets the requirement of

(100±1) mm.

4.5 Conditioning

It shall be performed as per the standard environment and normal deviation range specified in GB 2918; the conditioning time shall be no less than 4h, and test shall be carried out under such condition.

5 Test Procedures

Open the specimen through the conditioning 180° with the thermal sealing position as center; clamp the two ends of the specimen onto the two fixtures of the tester;

6 Calculation

The test result shall take the arithmetic mean of 10 specimens as the thermal sealing strength of such position; unit is N/15mm; take three significant digits.

7.2 Test conditions.

QB/T 2358-1998

QB

NATIONAL LIGHT INDUSTRY STANDARD

Classification No.. Y 28

Record No.. 1372-1998

Test Methods for Thermal Sealing

Strength of Plastic Film Packaging Bag

Issued on. MARCH 27, 1998

Implemented on. DECEMBER 1, 1998

Issued by. China Light Industry Association

Table of Contents

Foreword... 3

Foreword

This Standard was modified on the basis of professional standard ZBY 28004-86 Test

Methods for Thermal Sealing Strength of Plastic Film Packaging Bag.

This Standard nonequivalent adopted Japanese industry standard JIS Z 0238-1995

Test Method for Sealed Flexible Packaging Bag.

This Standard added the specimen measurement method; added test conditions in the test report.

This Standard was proposed by Quality Standard Department of China Light Industry Association.

This Standard shall be under the jurisdiction of National Standardization Center of Plastics.

Drafting organization of this Standard. Jilin Plastics Research Institute.

Chief drafting staffs of this Standard. Dong Xiaowei, Gao Yunxue, Yu Yan, Jiang Shulan, and Zhao Lili.

This Standard replaced ZBY 28004-86 since the date of implementation.

Test Methods for Thermal Sealing
Strength of Plastic Film Packaging Bag

1 Scope

This Standard specifies the test methods for thermal sealing strength of plastic film packaging bag.

This Standard is applicable to the determination of thermal sealing strength for various plastic film packaging bags.

2 Normative References

The following standards contain provisions which, through reference in this Standard, constitute provisions of this Standard. At the time of publication, the editions indicated are valid. All standards are subject to revision. The parties who are using this Standard shall explore the possibility of using the latest version of the following standards.

GB 2918-82 Plastics - Standard Atmospheres for Conditioning and Testing