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General rules of plastic films for food packaging

ICS 55.040

Descriptors : food products, packaging materials, plastics, films (states of matter)

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Foreword

This translation has been made based on the original Japanese Industrial Standard revised by the Minister of International Trade and Industry through deliberations at Japanese Industrial Standards Committee in accordance with the Industrial Standardization Law. Consequently, JIS Z 1707: 1995 has been revised and replaced with this Standard. In this revision, conforming provisions between JIS and ISO standards has principally been taken into account, considering the actual circumstances of materials for food packaging. This Standard is said to be general rules which specify the common matters of plastic films for food packaging of respective kinds of materials.

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In the event of any doubts arising as to the contents,
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General rules of plastic films for food packaging

1 Scope This Japanese Industrial Standard specifies the general matters common to the plastic films ⁽¹⁾ used for packaging the food made of various kinds of materials (hereafter referred to as "film").

Note ⁽¹⁾ The plastic film said here is high polymer material in a state of film used for wrapping food or for bag and container or their composing material and of the thickness less than 250 μm .

2 Normative references The normative references to this Standard are as follows:

JIS B 7507 *Vernier, dial and digital callipers*

JIS K 7100 *Standard atmospheres for conditioning and testing of plastics*

Informative reference: ISO 291 : 1977 *Plastics—Standard atmospheres for conditioning and testing*, is equivalent to JIS K 7100.

JIS K 7124 *Testing method for dart impact resistance of plastic film and sheeting*

Informative reference: ISO 7765-1 : 1988 *Plastics film and sheeting—Determination of impact resistance by the free-falling dart method—Part 1: Staircase methods*, is equivalent to JIS K 7124.

JIS K 7126 *Testing method for gas transmission rate through plastic film and sheeting*

JIS K 7127 *Testing method for tensile properties of plastic films and sheets*

Informative reference: ISO 527-3 : 1995 *Plastics—Determination of tensile properties—Part 3: Test conditions for films and sheets*, is equivalent to JIS K 7127.

JIS K 7129 *Testing methods for water vapor transmission rate of plastic film and sheeting (instrument method)*

JIS Z 0208 *Testing methods for determination of the water vapour transmission rate of moisture-proof packaging material (dish method)*

JIS Z 8401 *Rules for rounding off of numerical values*

3 Division of performance

3.1 Tensile strength The film shall be tested in accordance with 7.2 and the division of grade of the tensile strength shall be as shown in Table 1.

Table 1 Division of grade of tensile strength

Item	Abbreviation	Unit	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5
Tensile strength	TS	N/15 mm per width	100 or more	50 or over to and excl. 100	25 or over to and excl. 50	5 or over to and excl. 25	Less than 5