

# JIS

**JAPANESE INDUSTRIAL STANDARD**

**Poly (vinyl chloride) films  
for agriculture**

Ⓢ **JIS K 6732**—1996

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**In the event of any doubt arising,  
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## JAPANESE INDUSTRIAL STANDARD

J I S

Poly (vinyl chloride) films for agriculture

K 6732-1996

1. Scope This Japanese Industrial Standard specifies poly(vinyl chloride) films for outer spreading (hereafter referred to as "outer vinyl film") and poly(vinyl chloride) films for inner spreading (hereafter referred to as "inner vinyl film"), both of which are used for agriculture purpose.

Remarks 1. The standards cited in this Standard are listed as follows.

- JIS B 7503 Dial gauges
- JIS B 7753 Light-exposure and light-and-water-exposure apparatus (Open-flame sunshine carbon-arc type)
- JIS K 6253 Hardness testing methods for vulcanized rubber
- JIS K 6900 Plastics – Vocabulary
- JIS K 7100 Standard atmospheres for conditioning and testing of plastics
- JIS P 8116 Paper and board – Determination of tearing resistance
- JIS Z 8401 Rules for rounding off of numerical values

2. The units and numerical values given in { } in this Standard are based on the traditional units, and appended for informative reference.

2. Definitions For the purpose of this Standard, in addition to the definitions in JIS K 6900, the definitions given below apply.

- (1) outer vinyl film Agriculture vinyl film for covering the roof or wall of such as house used for agriculture, facilities to shelter from rainfall, structure like the tunnel in outdoor, and so on.
- (2) inner vinyl film Agriculture vinyl film used for such as stationary inner spreading, curtain, and tunnel employed inside a glass house or plastic house for agriculture.
- (3) house The facilities, covered with such materials as agriculture vinyl film other than glass, in which workers can make their jobs.
- (4) tackiness The property to stick each other when sheets of agriculture vinyl film are put one upon another.

3. Classification Classification shall be an outer vinyl film and inner vinyl film both of which are for agriculture purpose, and their thickness be as in Table 1.

Table 1. Classification (outer vinyl film and inner vinyl film) and their thickness

Classification	Thickness mm
Outer vinyl film	0.05, 0.075, 0.10, 0.13, 0.15, 0.20
Inner vinyl film	0.05, 0.075

4. Performance When outer vinyl film and inner vinyl film are tested according to 9, the outer vinyl film shall comply with the requirements in Table 2.1, and inner vinyl film in Table 2.2.

Table 2.1. Performance of outer vinyl film

Test item		Thickness     mm						Applicable subclause
		0.05	0.075	0.10	0.13	0.15	0.20	
Tensile breaking strength N {kgf}		8 {0.8} min.	12 {1.2} min.	15 {1.5} min.	18 {1.8} min.	22 {2.2} min.	30 {3.0} min.	9.3
Elongation                    %		180 min.	210 min.	230 min.		240 min.		9.3
Tearing strength	Rectangular tearing strength N {kgf}	1.5 {0.15} min.	2.5 {0.25} min.	3.5 {0.35} min.	4.5 {0.45} min.	5.5 {0.55} min.	7.5 {0.75} min.	9.4.1
	Elmendorf tearing strength N {kgf}	3.0 {0.30} min.	4.0 {0.40} min.	6.0 {0.60} min.	7.5 {0.75} min.	9.0 {0.90} min.	12.0 {1.20} min.	9.4.2
Low-temperature resistance	Low-temperature elongation %	10 min.	12 min.	13 min.				9.5
Accelerated weatherability	Discoloration test	No remarkable yellowing						9.6.3
	Remaining elongation after test %	50 min.			55 min.	60 min.		9.6.4

Table 2.2. Performance of inner vinyl film

Test item		Thickness mm		Applicable subclause
		0.05	0.075	
Tensile breaking strength N(kgf)		7 {0.7} min.	10 {1.0} min.	9.3
Elongation %		150 min.	170 min.	9.3
Tearing strength	Rectangular tearing strength N(kgf)	1.5 {0.15} min.	2.5 {0.25} min.	9.4.1
	Elmendorf tearing strength N(kgf)	2.0 {0.20} min.	3.0 {0.30} min.	9.4.2
Accelerated weatherability	Discoloration test	No remarkable yellowing		9.6.3
	Remaining elongation after test %	40 min.		9.6.4
Tackiness N(gf)		0.35 {35} max.		9.7

Remarks: For stationary inner vinyl film, tackiness doesn't apply to.

## 5. Dimensions

5.1 Width and length The width and length of outer vinyl film and inner vinyl film shall be as in Table 3.

The minus side tolerance of width and length shall be zero.

Width and length other than those specified in Table 3 may be adopted by agreement between the parties concerned with delivery.