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(JPIF/JSA)

**Plastics — Film and sheeting —
Determination of water vapour
transmission rate — Part 3: Electrolytic
detection sensor method**

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Contents

	Page
Introduction	1
1 Scope	1
2 Normative references	1
3 Terms and definitions	1
4 Principle	2
5 Test specimens	2
5.1 Shape of test specimen	2
5.2 Number of test specimens	2
5.3 Thickness measurement of test specimen	2
6 Conditioning	2
7 Apparatus	2
7.1 General	2
7.2 Transmission cell	3
7.3 Flowmeter	3
7.4 Drying tube	3
8 Test conditions	4
9 Procedure	4
9.1 General	4
9.2 Relative humidity control	4
9.3 Mount of test specimen	4
9.4 Transmission of water vapour	4
9.5 Voltage application	5
9.6 Measurement	5
9.7 Record of current under steady state	5
10 Calculation	5
11 Test results	5
12 Precision	5
13 Test report	6
Annex A (informative) Relationship between relative humidity and concentration of sulfuric acid solution	7
Annex JA (informative) Comparison table between JIS and corresponding International Standard	8

Foreword

This Japanese Industrial Standard has been established by the Minister of Economy, Trade and Industry through deliberations at the Japanese Industrial Standards Committee according to the proposal for establishment of Japanese Industrial Standard submitted by The Japan Plastics Industry Federation (JPIF)/Japanese Standards Association (JSA) with the draft being attached, based on the provision of Article 12 Clause 1 of the Industrial Standardization Law.

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JIS K 7129 series consists of the following 7 parts under the general title “*Plastics — Film and sheeting — Determination of water vapour transmission rate —*”:

Part 1 : Humidity detection sensor method

Part 2 : Infrared detection sensor method

Part 3 : Electrolytic detection sensor method

Part 4 : Gas-chromatographic detection sensor method

Part 5 : Pressure sensor method

Part 6 : Atmospheric pressure ionization mass spectrometer method

Part 7 : Calcium corrosion method

Plastics — Film and sheeting — Determination of water vapour transmission rate — Part 3 : Electrolytic detection sensor method

Introduction

This Japanese Industrial Standard has been prepared based on ISO 15106-3 : 2003, Edition 1, with some modifications of the technical contents to be consistent with the corresponding International Standard system.

The vertical lines on both sides and dotted underlines indicate changes from the corresponding International Standard. A list of modifications with the explanations is given in Annex JA.

1 Scope

This Standard specifies an instrumental method for determining the water vapour transmission rate of plastic film, plastic sheeting and multi-layer structures including plastics, which have smooth surfaces without any embossed portions, using an electrolytic detection sensor.

NOTE The International Standard corresponding to this Standard and the symbol of degree of correspondence are as follows.

ISO 15106-3 : 2003 *Plastics — Film and sheeting — Determination of water vapour transmission rate — Part 3 : Electrolytic detection sensor method* (MOD)

In addition, symbols which denote the degree of correspondence in the contents between the relevant International Standards and JIS are IDT (identical), MOD (modified), and NEQ (not equivalent) according to ISO/IEC Guide 21-1.

2 Normative references

The following standards contain provisions which, through reference in this text, constitute provisions of this Standard. The most recent editions of the standards (including amendments) indicated below shall be applied.

JIS K 6900 *Plastics — Vocabulary*

JIS K 7130 *Plastics — Film and sheeting — Determination of thickness*

NOTE Corresponding International Standard : ISO 4593 *Plastics — Film and sheeting — Determination of thickness by mechanical scanning*

3 Terms and definitions

For the purpose of this Standard, the terms and definitions given in JIS K 6900, and the following apply.