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**Plastics—Methods of exposure to
solar radiation—Part 1: General
guidance**

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Foreword

This translation has been made based on the original Japanese Industrial Standard 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 Japan Weathering Test Center (JWTC)/Japanese Standards Association (JSA) with the draft being attached, based on the provision of Article 12 Clause 1 of the Industrial Standardization Law. Consequently, **JIS K 7219**:1998 has been withdrawn and partially replaced with this Standard.

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JIS K 7219 series consists of the following 2 parts under the general title “*Plastics—Methods of exposure to solar radiation*”:

Part 1: General guidance

Part 2: Direct weathering and exposure behind window glass

Plastics—Methods of exposure to solar radiation—Part 1: General guidance

Introduction

This Japanese Industrial Standard has been prepared based on the first edition of **ISO 877-1** published in 2009 with some modifications of the technical contents.

The portions given continuous sidelines or dotted underlines are the matters in which the contents of the original International Standard have been modified. A list of modifications with the explanations is given in Annex JA.

ISO 877 is composed of the following parts. However, Part 3 of the said **ISO** has not been established as Japanese Industrial Standard since the climate conditions for the test (annual solar radiation of 3 500 h or more and average humidity during day of 30 % or lower) recommended therein are virtually impossible in Japanese climate.

— *Part 1: General guidance*

— *Part 2: Direct weathering and exposure behind window glass*

— *Part 3: Intensified weathering using concentrated solar radiation*

1 Scope

This Standard provides general guidance on the test methods of plastics by exposure to solar radiation. It is applicable to plastics materials of all kinds as well as to products and portions of products. It does not include the black-box exposure test method.

NOTE 1 Description related to the black-box exposure test is given in **JIS Z 2381** (see [1] in Bibliography).

NOTE 2 The International Standard corresponding to this Standard and the symbol of degree of correspondence are as follows.

ISO 877-1:2009 *Plastics—Methods of exposure to solar radiation—Part 1: General guidance* (MOD)

In addition, symbols which denote the degree of correspondence in the contents between the relevant International Standard 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 7100 *Plastics—Standard atmospheres for conditioning and testing*

NOTE : Corresponding International Standard: ISO 291:1997 *Plastics—Standard atmospheres for conditioning and testing* (MOD)

In **ISO 877-1:2009**, the revised edition of **ISO 291:1997**, that is **ISO 291:2008**, is cited as normative reference. However, **JIS K 7100** and **ISO 291:2008** are technically equivalent in the cited matters.