



JAPANESE  
INDUSTRIAL  
STANDARD

Translated and Published by  
Japanese Standards Association

---

---

JIS K 6902 : 2022

(JPIF/JTPIA/JSA)

**Testing method for laminated thermosetting high-pressure decorative sheets**

K 6902 : 2022

Date of Establishment: 1961-06-01

Date of Revision: 2022-02-21

Date of Public Notice in Official Gazette: 2022-02-21

Investigated by: Japanese Industrial Standards Committee  
Standards Board for ISO area

---

JIS K 6902 : 2022, First English edition published in 2023-03

Translated and published by: Japanese Standards Association  
Mita MT Building, 3-13-12, Mita, Minato-ku, Tokyo, 108-0073 JAPAN

---

In the event of any doubts arising as to the contents,  
the original JIS is to be the final authority.

© JSA 2023

All rights reserved. Unless otherwise specified, no part of this publication may be reproduced or utilized in any form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from the publisher.

Printed in Japan

HN

PROTECTED BY COPYRIGHT

## Contents

	Page
Introduction .....	1
1 Scope .....	1
2 Normative references .....	1
3 Term and definition .....	3
4 Appearance .....	3
5 Thickness .....	4
6 Length and width .....	5
7 Edge straightness .....	5
8 Edge squareness .....	6
9 Flatness .....	8
10 Resistance to surface wear .....	10
11 Resistance to immersion in boiling water .....	18
12 Resistance to water vapour .....	21
13 Resistance to dry heat .....	23
14 Dimensional stability (at elevated temperature) .....	33
15 Dimensional stability (ambient temperature) .....	41
16 Resistance to impact by small diameter ball .....	45
17 Resistance to impact by large diameter ball .....	49
18 Resistance to crazing (compact laminates) .....	55
19 Resistance to scratching .....	56
20 Resistance to staining .....	66
21 Lightfastness .....	76
22 Formability .....	82
23 Resistance to blistering .....	97
24 Resistance to wet heat .....	100
25 Flexibility (laminates for vehicles) .....	104
Annex JA (informative) Comparison table between JIS and corresponding International Standard .....	106

## Foreword

This Japanese Industrial Standard has been revised by the Minister of Economy, Trade and Industry through deliberations at the Japanese Industrial Standards Committee as the result of proposal for revision of Japanese Industrial Standard submitted by The Japan Plastics Industry Federation (JPIF)/Japan Thermosetting Plastics Industry Association (JTPIA)/Japanese Standards Association (JSA) with a draft being attached, based on the provision of Article 12, paragraph (1) of the Industrial Standardization Act applied mutatis mutandis pursuant to the provision of Article 16 of the said Act. This edition replaces the previous edition (**JIS K 6902** : 2008), which has been technically revised.

This **JIS** document is protected by the Copyright Act.

Attention is drawn to the possibility that some parts of this Standard may conflict with patent rights, published patent application or utility model rights. The relevant Minister and the Japanese Industrial Standards Committee are not responsible for identifying any of such patent rights, published patent application or utility model rights.

# Testing method for laminated thermosetting high-pressure decorative sheets

## Introduction

This Japanese Industrial Standard has been prepared based on **ISO 4586-2** : 2018, Edition 7, with some modifications of the technical contents.

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 the testing method for the laminated thermosetting high-pressure decorative sheets specified in **JIS K 6903** (hereafter referred to as the high-pressure decorative laminates).

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

ISO 4586-2 : 2018 *High-pressure decorative laminates (HPL, HPDL) — Sheets based on thermosetting resins (usually called laminates) — Part 2 : Determination of properties* (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 B 0601 *Geometrical Product Specifications (GPS) — Surface texture : Profile method — Terms, definitions and surface texture parameters*

JIS B 1501 *Rolling bearings — Balls*

JIS B 7414 *Glass thermometers*

JIS B 7502 *Micrometers*

JIS B 7503 *Mechanical dial gauges*

JIS B 7512 *Steel tape measures*

JIS B 7516 *Metal rules*

JIS B 7751 *Light-exposure and light-and-water-exposure apparatus (Enclosed*