

BUREAU OF INDIAN STANDARDS

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भारतीय मानक मसौदा

सजावटी थर्मोसेटिंग सिंथेटिक रेज़िनबॉन्डेड लेमिनेटेड चादरें — विशिष्टि
भाग 1 परिचय और सामान्य जानकारी

Draft Indian Standard

**DECORATIVE THERMOSETTING SYNTHETIC RESIN BONDED LAMINATED
SHEETS — SPECIFICATION PART 1: INTRODUCTION AND GENERAL
INFORMATION**

(Third Revision of IS 2046)

(ICS 83.140.20)

Plastics Sectional Committee, PCD 12

Last date for receipt of comment is

NATIONAL FOREWORD

(Formal clauses to be added later)

This standard was originally published in 1962 and subsequently revised in 1969 and 1995. The standard was originally published to meet the general demand for a standard to cover the use of synthetic resin bonded sheets as a decorative material having a surface which is characterized by its hardness and the materials covered were suitable for use as wall panels or as veneer for wood or other surfaces.

The first revision of this standard was based on BS 3794 : 1964 'Specification for decorative laminated plastics sheets' issued by the British Standards Institution.

The Second revision has been necessitated to harmonize the standard with EN 438-1 : 1991 and EN 438-2 : 1992 issued by the European Committee for Standardization (CEN).

This revision (third) has been undertaken to align the Indian Standard with the ISO 4586 (all parts) High-pressure decorative laminates (HPL, HPDL) Sheets based on thermosetting resins (usually called laminates). Since the ISO standard is published in 8 parts, the standard (IS 2046) has been also bifurcated in 8 parts. This Standard (Part 1) covers the introduction and general information.

Other parts in this series are:

| | |
|--------|---|
| Part 2 | Determination of properties |
| Part 3 | Classification and specifications for laminates less than 2 mm thick and intended for bonding to supporting substrates |
| Part 4 | Classification and specifications for compact laminates of thickness 2 mm and greater |
| Part 5 | Classification and specifications for flooring grade laminates less than 2 mm thick intended for bonding to supporting substrates |
| Part 6 | Classification and specifications for exterior-grade compact laminates of thickness 2 mm and greater |
| Part 7 | Classification and specifications for design laminates |
| Part 8 | Classification and specifications for alternative core laminates |

The text of ISO Standard has been approved as suitable for publication as an Indian Standard without deviations. Certain conventions are, however, not identical to those used in Indian Standards. Attention is particularly drawn to the following:

- a) Wherever the words ‘International Standard’ appear referring to this standard, they should be read as ‘Indian Standard’.
- b) Comma (,) has been used as a decimal marker while in Indian Standards, the current practice is to use a point (.) as the decimal marker.

In this adopted standard, reference appears to certain International Standards for which Indian Standards also exist. The corresponding Indian Standards, which are to be substituted in their respective places, are listed below along with their degree of equivalence for the editions indicated:

| <i>International Standard</i> | <i>Corresponding Indian Standard</i> | <i>Degree of Equivalence</i> |
|--|---|------------------------------|
| ISO 4586-2 High-pressure decorative laminates (HPL, HPDL) — Sheets based on thermosetting resins (usually called laminates) — Part 2: Determination of properties | PCD 12/ () Decorative thermosetting synthetic resin bonded laminated sheets – Specification : Part 2 Determination of properties (<i>under WC</i>) | Identical |
| ISO 4586-3 High-pressure decorative laminates (HPL, HPDL) — Sheets based on thermosetting resins (usually called laminates) — Part 3: Classification and specifications for laminates less than 2 mm thick and intended for bonding to supporting substrates | PCD 12/ () Decorative thermosetting synthetic resin bonded laminated sheets – Specification Part 3: Classification and specifications for laminates less than 2 mm thick and intended for bonding to supporting substrates (<i>under WC</i>) | Identical |

| | | |
|--|--|------------------|
| <p>ISO 4586-4 High-pressure decorative laminates (HPL, HPDL) — Sheets based on thermosetting resins (usually called laminates) — Part 4: Classification and specifications for compact laminates of thickness 2 mm and greater</p> | <p>PCD 12/ () Decorative thermosetting synthetic resin bonded laminated sheets – Specification : Part 4 Classification and specifications for compact laminates of thickness 2 mm and greater (<i>under WC</i>)</p> | <p>Identical</p> |
| <p>ISO 4586-5 High-pressure decorative laminates (HPL, HPDL) — Sheets based on thermosetting resins (usually called laminates) — Part 5: Classification and specifications for flooring grade laminates less than 2 mm thick intended for bonding to supporting substrates</p> | <p>PCD 12/ () Decorative thermosetting synthetic resin bonded laminated sheets – Specification : Part 5 Classification and specifications for flooring grade laminates less than 2 mm thick intended for bonding to supporting substrates (<i>under WC</i>)</p> | <p>Identical</p> |
| <p>ISO 4586-6 High-pressure decorative laminates (HPL, HPDL) — Sheets based on thermosetting resins (usually called laminates) — Part 6: Classification and specifications for exterior-grade compact laminates of thickness 2 mm and greater</p> | <p>PCD 12/ () Decorative thermosetting synthetic resin bonded laminated sheets – Specification : Part 6 Classification and specifications for exterior-grade compact laminates of thickness 2 mm and greater (<i>under WC</i>)</p> | <p>Identical</p> |
| <p>ISO 4586-7 High-pressure decorative laminates (HPL, HPDL) — Sheets based on thermosetting resins (usually called laminates) — Part 7: Classification and specifications for design laminates</p> | <p>PCD 12/ () Decorative thermosetting synthetic resin bonded laminated sheets – Specification : Part 7 Classification and specifications for design laminates (<i>under WC</i>)</p> | <p>Identical</p> |
| <p>ISO 4586-8 High-pressure decorative laminates (HPL, HPDL) — Sheets based on thermosetting resins (usually called laminates) — Part 8: Classification and specifications for alternative core laminates</p> | <p>PCD 12/ () Decorative thermosetting synthetic resin bonded laminated sheets – Specification : Part 8 Classification and specifications for alternative core laminates (<i>under WC</i>)</p> | <p>Identical</p> |

The technical committee has reviewed the provisions of the following International Standard referred in this adopted standard and has decided that it is acceptable for use in conjunction with this standard:

| <i>International Standard</i> | <i>Title</i> |
|-------------------------------|--|
| EN 13329 | Laminate floor coverings — Specifications, requirements and test methods |

For the purpose of deciding whether a particular requirement of this standard is complied with, the final value, observed or calculated expressing the result of a test or analysis, shall be rounded off in accordance with IS 2 : 2022 'Rules for rounding off numerical values (*second revision*).' The number of significant places retained in the rounded off value should be the same as that of the specified value in this standard.

NOTE — The technical content of this document has not been enclosed as this is identical with the corresponding ISO Standard. For details, please refer to ISO 4586-1 : 2018 or kindly contact:

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