**Doc: PCD 12 (24849) F**

***भारतीय मानक***

***Indian Standard***

**IS XXXX : 2024**

 **ISO 5412 : 2022**

**प्लास्टिक –– औद्योगिक कंपोस्टेबल प्लास्टिक शॉपिंग बैग**

**Plastics — Industrial Compostable Plastic Shopping Bags**

ICS 83.140.99

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भारतीय मानक ब्यूरो

BUREAU OF INDIAN STANDARDS

मानक भवन, 9 बहादुर शाह ज़फर मार्ग, नई दिल्ली - 110002

MANAK BHAVAN, 9 BAHADUR SHAH ZAFAR MARG

NEW DELHI - 110002

[www.bis.gov.in](http://www.bis.org.in) [www.standardsbis.in](http://www.standardsbis.in)

 **December 2024 Price Group X**

Plastics Sectional Committee, PCD 12

NATIONAL FOREWORD

This Indian Standard which is identical with ISO 5412 : 2022 ‘Plastics — Industrial compostable plastic shopping bags’ issued by the International Organization for Standardization (ISO) was adopted by the Bureau of Indian Standards on the recommendations of the Plastics Sectional Committee and approval of the Petroleum, Coal and Related Products Division Council.

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 Standard for which Indian Standard also exist. The corresponding Indian Standard, which is to be substituted in their respective places, is listed below along with their degree of equivalence for the editions indicated:

|  |  |  |
| --- | --- | --- |
| *International Standard* | *Corresponding Indian Standard* | *Degree of Equivalence* |
| ISO 527-3 Plastics — Determination of tensile properties — Part 3: Test conditions for films and sheets | IS 13360 (Part 5/Sec 3) : 2022/ISO 527-3 : 2018 Plastics —Method of testing: Part 5 Mechanical properties Section 3 Determination of tensile properties — Test conditions for films and sheets (*second revision*) | Identical |
| ISO 2859-1 Sampling procedures for inspection by attributes — Part 1: Sampling schemes indexed by acceptance quality limit (AQL) for lot-by-lot inspection | IS 2500 (Part 1) : 2000/ISO 2859-1 : 1999 Sampling procedure for inspection by attributes: Part 1 Sampling schemes indexed by acceptance quality limit (AQL) for lot-by-lot inspection (*third revision*) | Identical |
| ISO 7765-1 : 1988 Plastics film and sheeting — Determination of impact resistance by the free-falling dart method — Part 1: Staircase methods | IS 13360 (Part 5/Sec 6) : 1999/ISO 7765-1 : 1988 Plastics –– Methods of testing: Part 5 Mechanical properties Section 6 Determination of impact resistance by the free-falling dart method –– Staircase methods | Identical |
| ISO 17088 Plastics –– Organic recycling — Specifications for compostable plastics | IS/ISO 17088 : 2021 Compostable Plastics — Specification (*second revision*) | Identical |

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

|  |  |
| --- | --- |
| *International Standard* | *Title* |
| [ISO 291](https://www.iso.org/obp/ui/#iso:std:iso:291:en)  | Plastics  — Standard atmospheres for conditioning and testing |
| ISO 4592 | Plastics — Film and sheeting — Determination of length and width |
| ISO 4593 | Plastics — Film and sheeting — Determination of thickness by mechanical scanning |

The standard also makes a reference to the BIS Certification Marking of the product. Details of which are given in National Annex A.

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.

**NATIONAL ANNEX A**

*(National Foreword)*

**A-1 BIS CERTIFICATION MARKING**

The product(s) conforming to the requirements of this standard may be certified as per the conformity assessment schemes under the provisions of the *Bureau of Indian Standards Act*, 2016 and the rules and regulations framed thereunder, and the products may be marked with the Standard Mark.