

केन्द्रीय मुहर विभाग -2

संदर्भ -: के.मु.वि.-2/16:2508

18 09 2019

विषय: IS 2508:2016 के संशोधन सं 2 के अनुपालन के दिशा निर्देश

यह उपरोक्त विषय के संदर्भ में है।

सक्षम अधिकारी द्वारा अनुमोदित दिशा निर्देश अनुपालन हेतु संलग्न है।

सभी क्षेत्रीयशाखा कार्यालयों से अनुरोध है की उपरोक्त दिशानिर्देशों का अनुपालन तत्काल प्रभाव से सुनिश्चित/ करें।

(आदित्य दास)
वैज्ञानिक सी

प्रमुख (के मू वी-2)

सभी क्षेत्रीय/शाखा कार्यालय/प्रयोगशालाएँ/पी सी डी/एल पी पी डी

प्रतिलिपि :

आई टी एस विभाग – बी आई एस इंटरनेट पर डालने हेतु

CENTRAL MARKS DEPARTMENT-2

Our Ref: CMD-2/16:2508

18 09 2019

Subject: Guidelines for implementation of amendment no. 2 to IS 2508:2016

This has reference to the subject mentioned above.

The Competent Authority has approved the enclosed Guidelines for implementation.

All ROs/BOs are requested to ensure the implementation of the above Guidelines with immediate effect.

(Aditya Das)
Scientist C

Head (CMD-2)

All ROs/BOs/Labs/PCD/LPPD

Copy to:

ITSD - for hosting on BIS Intranet.

CENTRAL MARKS DEPARTMENT-2

Our Ref: CMD-2/16: 2508

16 09 2019

Subject: Guidelines for implementation of Amendment No. 2 to IS 2508:2016 – Polyethylene Films and Sheets - Specification

1. Amendment No. 2 to IS 2508:2016 has been published. The last date for implementation of the amendment is **22 Nov 2019**.
2. All BOs shall inform the Applicants and Licensees under their jurisdiction about implementation of the above amendment **within a week of issuance of these guidelines**.
3. The significant changes in the amendment as listed in the Table are given for the purpose of general guidance. BOs shall ensure that the product conforms to all the requirements, as applicable, as per the amendment.

Clause	Change
1.1	Relief shelter and disaster management has been added in the scope as an intended application of this product
2.0	IS 16738:2018 (Positive list of constituents for polypropylene, polyethylene, and their copolymers for its safe use in contact with foodstuffs and pharmaceuticals) has been substituted for IS 10141:2001 (positive list of constituents of polyethylene use in contact with foodstuffs, pharmaceuticals and drinking water)
3.0	The classification of films/types into different types based on width and thickness has been modified
4.1.2	Requirement for melt flow index of the polymer for Type I and Type III polyethylene film/sheet has been modified
4.1.4	Requirement for melt flow index of the polymer for Type II and Type IV polyethylene film/sheet has been modified
4.2.4.1.1	α -olefin substituted for olefin
4.2.4.1.4 (a)	Requirement for Density of Carbon black used in carbon black master batch has been modified
4.2.4.1.4 (e)	Requirement for tint strength of Carbon black used in carbon black master batch has been modified
5.2.2	Requirement for tolerance on nominal thickness at any given point has been modified
8.1, Table 3	Requirements for Type III PE film/sheet have been modified
9.1, Table 4	Requirements for Type IV PE film/sheet have been modified

4. There are no changes in the existing STI.
5. The guidelines for implementation of the amendment is given below:

A. LICENSEES:

- (i) All Licensees shall implement the amendment by **22 Nov 2019**. BOs shall ensure that no Licences are under operation as per IS 2508:2016 without the amendment after **22 Nov 2019**.

- (ii) Licensees shall submit evidence of conformity to the additional/modified requirements through In-house/Independent Test Reports or Test Certificates, as applicable. Verification of implementation of the amendment, wherever required, may be done during the next visit.
- (iii) If the Licensee fails to complete all actions by **22 Nov 2019** it shall be dealt with as per the prevailing guidelines.

B. APPLICATIONS FOR GRANT OF LICENCE:

- (i) Existing Applications where Sample has been submitted in the Laboratory/Test Report has been issued by the Laboratory may be processed without consideration of the amendment. However, if the Applicant is desirous of considering the amendment, a declaration may be obtained from the Applicant to that effect and the Application may be processed accordingly. An undertaking shall also be obtained from such Applicants that if the sample fails while considering the provisions of the amendment, Licence will not be granted as per the old version.
- (ii) Applications which are recorded henceforth may be processed with or without consideration of the amendment. Processing of Applications without consideration of the amendment shall be permitted only upto **21 Nov 2019** and for such cases Applicant shall give a declaration that they will implement the amendment by **22 Nov 2019**.
- (iii) Beyond **22 Nov 2019** no Licence shall be granted without consideration of the amendment.

C. CHANGE IN SCOPE OF LICENCE:

- (i) For change in scope of licence, the relevant provisions as given above for Applicants shall apply.
- (ii) However, processing of such applications for change in scope of licence without consideration of the amendment shall be permitted only upto the date of implementation of the amendment by the licensee or upto **22 Nov 2019** whichever is earlier.

6. The above guidelines come into force with immediate effect.

Aditya Das
Sc. C

Head (CMD-2)
DDG (Certification)

AMENDMENT NO. 2 AUGUST 2019
TO
IS 2508 : 2016 POLYETHYLENE FILMS AND SHEETS — SPECIFICATION

(Third Revision)

(Page 1, clause 1.1) — Insert the following at the end of clause:

‘and Relief shelter and Disaster Management.’

(Page 1, clause 2) — Substitute ‘IS 16738 : 2018 Positive list of constituents for polypropylene, polyethylene and their copolymers for its safe use in contact with foodstuffs and pharmaceuticals’ for ‘IS 10141 : 2001 Positive list of constituents of polyethylene use in contact with foodstuffs, pharmaceuticals and drinking water’.

(Page 1, clause 3) — Substitute the following for the existing clause:

Based on the thickness, width and density, the polyethylene film/ sheet shall be of the following types:

- a) *Type I (LDPE/LLDPE)* — Nominal thickness from 100 to 450 μm and width from 4 to 15 m.
- b) *Type II (HDPE)* — Nominal thickness from 100 to 450 μm and width from 4 to 9 m.
- c) *Type III (LDPE/LLDPE)* — Nominal thickness from 500 to 1500 μm and width from 5 to 9 m.
- d) *Type IV (HDPE)* — Nominal thickness from 500 to 1500 μm and width from 5 to 9 m.’

(Page 2, clause 4.1.2, line 3) — Substitute ‘0.10 to 1.2 g/10 min’ for ‘0.10 to 2.0 g/10 min’.

(Page 2, clause 4.1.4, line 3) — Substitute ‘0.10 to 1.2 g/10 min’ for ‘0.10 to 1.0 g/10 min’.

(Page 2, clause 4.2.4.1.1, line 2) — Insert ‘ α ’ before olefin.

[Page 2, clause 4.2.4.1.4 (a)] — Substitute ‘1.0 to 2.0 g/cc’ for ‘1.5 to 2.0 g/ml’.

[Page 2, clause 4.2.4.1.4 (e)] — Substitute ‘ ≥ 105 ’ for ‘Min – 115’.

[Page 3, clause 5.2.2, value under ‘Tolerance, Percent’ (see also Amendment No. 1)] —

Substitute ‘ $\left. \begin{array}{l} - 10 \\ + 20 \end{array} \right\}$ ’ for ‘-10’.

Amendment No. 2 to IS 2508 : 2016

[Page 4, Table 3 (see also Amendment No. 1)] — Substitute the following table for the existing:

Table 3 Requirements for Type III Polyethylene (PE) Film/ Sheet
(Clause 8.1)

Sl No.	Characteristic	Thickness of Film/ Sheet, μm				Method of Test, Ref to	
		500	750	1 000	1 500	IS No. (7)	Annex (8)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
i)	Tensile properties ¹⁾ , <i>Min</i> Average					IS 13360 (Part 5/Sec 1) and IS 13360 (Part 5/Sec 3)	
	a) Break strength, N/mm	13	20	27	40	Test conditions – Specimen type 5 and test speed 51 mm/min	–
	b) Break elongation, percent	800	800	800	800		
ii)	Tear resistance, <i>Min</i> Average, N	50	70	100	150	–	B
iii)	Puncture resistance, <i>Min</i> Average, N	120	190	250	370	–	C

¹⁾ Machine direction (MD) and cross-machine direction (TD) average values should be on the basis of 5 test specimens each direction. Break elongation is calculated using a gauge length of 50 mm.

[Page 5, Table 4 (see also Amendment No. 1)] — Substitute the following table for the existing:

Table 4 Requirements for Type IV Polyethylene (PE) Film/Sheet
(Clause 9.1)

Sl No.	Characteristic	Thickness of Film/ Sheet, μm				Method of Test, Ref to	
		500	750	1 000	1 500	IS No. (7)	Annex (8)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
i)	Tensile properties ¹⁾ , <i>Min</i> Average					IS 13360 (Part 5/Sec 1) and IS 13360 (Part 5/Sec 3)	
	a) Yield strength, N/ mm	7	11	15	22	Test conditions - Specimen type 5 and test speed 51 mm/min	–
	b) Break strength, N/ mm	13	20	27	40		–
	c) Yield elongation, percent	12	12	12	12		
	d) Break elongation, percent	700	700	700	700		
ii)	Tear resistance, <i>Min</i> Average, N	62	93	125	187	–	B
iii)	Puncture resistance, <i>Min</i> Average, N	160	240	320	480	–	C

¹⁾ Machine direction (MD) and cross-machine direction (TD) average values should be on the basis of 5 test specimens each direction. Yield elongation is calculated using a gauge length of 33 mm. Break elongation is calculated using a gauge length of 50 mm.