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DRAFT EAST AFRICAN STANDARD

Paper and board food contact packaging material — Specification

EAST AFRICAN COMMUNITY

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Foreword

Development of the East African Standards has been necessitated by the need for harmonizing requirements governing quality of products and services in the East African Community. It is envisaged that through harmonized standardization, trade barriers that are encountered when goods and services are exchanged within the Community will be removed.

The Community has established an East African Standards Committee (EASC) mandated to develop and issue East African Standards (EAS). The Committee is composed of representatives of the National Standards Bodies in Partner States, together with the representatives from the public and private sector organizations in the community.

East African Standards are developed through Technical Committees that are representative of key stakeholders including government, academia, consumer groups, private sector and other interested parties. Draft East African Standards are circulated to stakeholders through the National Standards Bodies in the Partner States. The comments received are discussed and incorporated before finalization of standards, in accordance with the Principles and procedures for development of East African Standards.

East African Standards are subject to review, to keep pace with technological advances. Users of the East African Standards are therefore expected to ensure that they always have the latest versions of the standards they are implementing.

The committee responsible for this document is Technical Committee EASC/TC 066, *Packaging*.

Attention is drawn to the possibility that some of the elements of this document may be subject of patent rights. EAC shall not be held responsible for identifying any or all such patent rights.

During the preparation of this Standard, reference was made to the following document:

IS 3263, *Specification for waxed paper for confectionery*.

Acknowledgment is hereby made for the assistance derived from this source.

Paper and board food contact packaging material — Specification

1 Scope

This Draft East African Standard specifies the requirements, methods of sampling and test for paper and board food contact packaging material.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 287, *Paper and board — Determination of moisture content of a lot — Oven-drying method*

ISO 536, *Paper and board — Determination of grammage*

ISO 13302, *Sensory analysis — Methods for assessing modifications to the flavour of foodstuffs due to packaging*

ISO 8784-1, *Pulp, paper and board — Microbiological examination — Part 1: Total count of bacteria, yeast, mould based on disintegration*

ISO 13914, *Soil quality — Determination of dioxins and furans and dioxin-like polychlorinated biphenyls by gas chromatography with high-resolution mass selective detection (GC/HRMS)*

EAS 880, *Waxed paper for packaging of confectionery — Specification*

DEAS 933, *Paper and board intended to come into contact with foodstuffs — Determination of formaldehyde in an aqueous extract (Under development as CD/K/12: 2018)*

3 Terms and definitions

For the purposes of this standard, the following term and definition apply

food contact material

all kinds of paper and board materials and their products expected to contact with food, including waxed paper, pulp moulding products and food processing and cooking paper.

3 Requirements

3.1 General requirements

3.1.1 The material shall be:

- a) manufactured from virgin, blended or recycled pulp;
- b) machine glazed; and
- c) not harmful to human health.

3.1.2 The prints shall not bleed if the material is supplied when heat sealed and printed. Printed surfaces of the paper shall not come into contact with the food.

3.2 Specific requirements

3.2.1 Physical, chemical and heavy metal contaminants requirements

3.2.1.1 Limits of contaminants

When tested in accordance with the methods specified in Table 1, the Paper and board food contact Packaging material shall comply with the limits of heavy metal and organic contaminants specified therein.

Table 1 — Limits of heavy metal and organic pollutants for paper and board food contact packaging material

S/N	Contaminant	Paper and board intended to come in contact with food (mg/kg of paper/board)	Paper for filtration (mg/kg of paper/board)	Test method
i)	Cadmium (Cd ²⁺), max.	0.5	0.5	EAS 880
ii)	Chromium Cr ⁶⁺ , max.	0.05	0.05	
iii)	Lead (Pb ²⁺), max.	3.0	3.0	
iv)	Mercury (Hg ²⁺), max.	0.3	0.3	
v)	Pentachlorophenol (PCP), max.	0.05	0.05	
vi)	Polychlorinated biphenyl, max.	2.0	0.5	
vii)	Formaldehyde	not detected		CD/K/12
viii)	Dioxins	not detected		ISO 13914

3.2.1.2 Assessment of the inherent odour of the packaging material

When tested in accordance to ISO 13302, the paper and board food contact packaging material shall be free from objectionable odour.

3.2.1.3 Grammage of the paper

When tested in accordance with ISO 536 the grammage of the paper used shall be as agreed to between the purchaser and the supplier. A tolerance of $\pm 5\%$ shall be applicable on the nominal substance.

3.4 Dimensions

3.4.1 Paper and board food contact packaging material shall be packaged in sheet form or rolls.

3.4.2 The dimensions of the sheet shall be as specified in the marking, subject to a tolerance of $\pm 0.5\%$ or 3 mm whichever less is.

3.4.3 If supplied in reels and tested in accordance to Annex A, the width and diameter of the reel shall be as specified in the marking. The tolerance of ± 6 mm shall be applied on the diameter of the reel.

3.5 Microbiological requirements

Paper and board food contact packaging material shall comply with microbiological requirements given in Table 2.

Table 2 — Microbiological limits for paper and board food contact packaging material

S/N	Characteristic	Limit	Test method
i.	Total plate count, cfu/g, max.	300	ISO 8784-1
ii.	<i>Pseudomonas aeruginosa</i> , cfu/g	Not detected in 1 g of the product	
iii.	<i>Staphylococcus aureus</i> , cfu/g		
iv.	<i>Candida albicans</i> , cfu/g		
v.	<i>Escherichia coli</i> , cfu/g		

4 Packaging

Paper and board food contact Packaging material shall be packed in suitable materials that prevents it from contamination and damage during normal handling, storage and transportation.

5 Labelling

5.1 Paper and board food contact packaging material shall be legibly and indelibly labelled with batch number /code or trade mark

5.2 Labelling on the bulk packaging for paper and board food contact packaging material, the following information shall be legibly and indelibly labelled on bulk:

- a) manufactures/suppliers name or trade mark or both;
- b) words, “made from virgin pulp, blended and recycled”;
- c) month and year of manufacture;
- d) the grammage of the sheet of paper;
- e) dimension of the sheet of paper; and
- f) country of origin/manufacture.

Annex A
(normative)
Measurement of dimensions

A.1 Measure to the nearest 0.5 mm, the width, (parallel to the cross direction of the paper) of each five test specimen taken across full width of five separate rolls and record the average of the results.

A.2 Measure to the nearest 1 mm, the diameter of each of the five rolls and record the results. Check for compliance with 4.4.

Bibliography

KS 2674, *Paper and board food contact Packaging material — Specification*

Draft East African Standard for Public Review

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