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DRAFT EAST AFRICAN STANDARD

Plastic hanger — Specification

EAST AFRICAN COMMUNITY

DRAFT EAST AFRICAN STANDARD ON PUBLIC REVIEW

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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 072, *Plastics and Related Products*.

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.

Plastic hanger — Specification

1 Scope

This Draft East African Standard specifies requirements, sampling, and test methods for plastic hanger.

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.

ASTM D5420, Standard Test Method for Impact Resistance of Flat, Rigid Plastic Specimen by Means of a Striker Impacted by a Falling Weight (Gardner Impact)

ISO 527-1:2019, *Plastics — Determination of tensile properties*

ISO 75-1:2020(en), *Plastics — Determination of temperature of deflection under load — Part 1: General test method*

3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

- IEC Electropedia: available at <http://www.electropedia.org/>
- ISO Online browsing platform: available at <http://www.iso.org/obp>

3.1

plastic hanger

garment support item manufactured primarily from synthetic polymers, designed to hold clothing items

4 General requirements

- 4.1 Edges shall be smooth and free from burrs to prevent garment damage or injury.
- 4.2 Hooks shall be securely attached to prevent detachment during use.
- 4.3 No sharp protrusions shall be present.
- 4.4 Materials shall be free from harmful substances.

5 Specific requirements

5.1 Tensile strength

Plastic hangers shall demonstrate a minimum tensile strength of 25 MPa and an elongation at break of not less than 5% when tested in accordance with ISO 527.

5.2 Hook strength

The hook of the plastic hanger shall withstand a bending force of not less than 20 N without fracture, permanent deformation, or detachment from the hanger body when tested in accordance with Annex A.

5.3 Impact resistance

Hangers shall not crack or break when tested in accordance with ASTM D5420.

5.4 Dimensional stability

Plastic hangers shall maintain dimensional stability under a garment load of 5 kg applied for 24 hours at ambient temperature (23 ± 2 °C).

5.6 UV Resistance

The plastic hanger shall be resistant to UV radiation and shall not deteriorate when tested in accordance with the preferred method of ISO 4892.

5.7 Temperature resistance

Plastic hanger shall not crack, warp when tested in accordance with ISO 75-1.

6 Labelling

6.1 Plastic hanger shall be legibly and indelibly labelled in English and/or any other official language (such as French and Kiswahili) used in the importing East African Partner State with the following information:

- a) name of product as 'Plastic hanger'
- b) name and physical address of manufacturer
- c) country of origin
- d) batch/lot number
- e) date of manufacture

6.2 Each plastic hanger shall be legibly and indelibly marked with a code of resin identification and symbol for recycling.

7 Sampling

The sampling shall be done in accordance with Table 1.

Table 1 — Scale of sampling and criteria for conformity of plastic hangers

Lot/Batch Size	Sample Size	Maximum defective units allowed
≤ 25	5	0
26 – 50	8	0
51 – 150	20	0
151 – 500	32	1
501 – 1,200	80	2
1,201 – 3,200	125	3
3,201 – 10,000	200	5
10,001 – 35,000	315	7
$\geq 35,000$	500	10

Annex A (normative)

Determination of hook strength

Procedure

- A.1 Ensure the hanger and equipment are ready for testing.
- A.2 Select a representative hanger sample free from defects.
- A.3 Secure a rigid clamping fixture to hold the hanger body without damaging it.
- A.4 Fix the hanger securely to prevent movement during loading.
- A.5 Position the hanger horizontally with the hook upright.
- A.6 Verify that the hook is free and accessible for lateral loading.
- A.7 Load the hook with a controlled force.
- A.8 Apply a force of 20 N laterally for 10 seconds.
- A.9 Maintain steady load without jerking or vibration.
- A.10 Monitor visually for any audible cracks or visible damage or detachment.

Bibliography

- [1] GS1 US. (2017), *Guideline: Hanger Specifications for Floor-Ready Merchandise, Release 7.0*. Retrieved from [GS1 US Apparel and General Merchandise Initiative].

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