

SLOVENSKI STANDARD SIST EN 277:1998

01-oktober-1998

Vreče za transport živil - Vreče iz polipropilenske tkanine

Sacks for the transport of food aid - Sacks made of woven polypropylene fabric

Säcke für den Transport von Lebensmitteln für die Nahrungsmittelhilfe - Säcke aus Polypropylengeweben

Sacs pour le transport de l'aide alimentaire - Sacs faits de polypropylene tissé (standards.iteh.ai)

Ta slovenski standard je istoveten z: EN 277:1995

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5603362a4b5d/sist-en-277-1998

ICS:

55.080 Vreče. Vrečke Sacks. Bags

67.250 Materiali in predmeti v stiku z Materials and articles in

živili contact with foodstuffs

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EUROPEAN STANDARD

EN 277

NORME EUROPÉENNE

EUROPÄISCHE NORM

April 1995

ICS 55.080

Supersedes EN 277:1989

Descriptors:

€ 1995

Plastic packaging, bags, sackcloth, polypropylene, capacity, food products, characteristics, drop tests, radiation resistance, ultraviolet radiation, sampling, climatic conditions

English version

Sacks for the transport of food aid - Sacks made of woven polypropylene fabric

Sacs pour le transport de l'aide alimentaire DARD PR Säcke für den Transport von Lebensmitteln für die Nahrungsmittelhilfe – Säcke aus Polypropylengeweben

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CEN

European Committee for Standardization Comité Européen de Normalisation Europäisches Komitee für Normung

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Foreword

This European Standard has been prepared by CEN Technical Committee CEN/TC 120 "Sacks for the transport of food aid", of which the secretariat is held by NNI.

This standard is one in a series of standards on sacks for the transport of food aid which are drawn up following a request from CEC.

This standard supersedes EN 277:1989.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by October 1995, and conflicting national standards shall be withdrawn at the latest by October 1995.

According to the CEN/CENELEC Internal Regulations, the following countries are bound to implement this European Standard:
Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and the United Kingdom.

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1 Scope

This European Standard specifies the general characteristics, requirements and methods of test for sacks made of woven polypropylene fabric.

This European Standard is applicable to sacks made of woven polypropylene fabric, having a filling mass up to 50 kg, intended for the transport of food aid.

2 Normative references

This European Standard incorporates by dated and undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text and the publications are listed hereafter. For dated references subsequent amendments to or revisions of any of these publications apply to this European Standard only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies.

EN 1086:1995	Sacks for the transport of food aid -	
	Recommendations on the selection of type of sack and	
iTah S	the liner in relation to the product to be packed	
EN 22206:1992	Packaging - Complete, filled transport packages -	
	Identification of parts when testing (ISO 2206:1987)	
EN 22233:1992	Packaging - Complete, filled transport packages -	
	Conditioning for testing (ISO 2233:1986)	
EN 26590-1:1992/standards.itePackaging and Sacks at Vocabulary and types -		
	Part 3/2 Paper sacks 7(ISO 6590-1:1983)	
EN 26590-2:1992	Packaging - Sacks - Vocabulary and types -	
	Part 2: Sacks made from thermoplastic flexible film	
	(ISO 6590-2:1986)	
EN 26591-2:1992	Packaging - Sacks - Description and method	
	of measurement - Part 2: Empty sacks made from	
	thermoplastic flexible film (ISO 6591-2:1985)	
EN 27023:1992	Packaging - Sacks - Method of sampling	
	empty sacks for testing (ISO 7023:1983)	
EN 27965-1:1992	Packaging - Sacks - Drop test - Part 1: Paper	
2.1 2,000	sacks (ISO 7965-1:1984)	
ISO 3676:1983	Packaging - Unit load sizes - Dimensions	
ISO 5081:1977	Textiles - Woven fabrics - Determination of breaking	
100 0001.1077	strength and elongation (Strip method)	
ASTM G 53:1988 ¹⁾	Standard practice for operating light and water exposure	
7,0117. 0 00.1000	apparatus (fluorescent UV- condensation type) for	
	exposure of non-metallic materials	
	oxpodulo of fiori inotamo materiale	

¹⁾ Information regarding this document can be obtained from the third country unit of the CEN national members

3 Definitions

For the purposes of this standard, the following definitions apply:

NOTE 1: Other terms used in the manufacture of sacks are defined in EN 26590 - 1 for paper sacks and in EN 26590 - 2 for sacks made of thermoplastic flexible film. Most of these terms can also be applied to sacks made of woven polypropylene fabric.

- 3.1 sack made of woven polypropylene fabric: A container made of woven polypropylene fabric, closed at least at one end, possibly in combination with other flexible materials used for the liner, to provide the properties required for filling and the goods distribution chain.
 - NOTE 2: Hereafter where the word sack is used in the text of this European Standard, a sack made of woven polypropylene fabric is to be understood.
- 3.2 ply: A tissue of woven polypropylene fabric, forming the walls of a sack.
- 3.3 gusset: A fold inserted in the longitudinal edge of a sack.
- 4 General characteristics SIST EN 277:1998

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- **4.1 Construction** 5603362a4b5d/sist-en-277-1998
- 4.1.1 The sack shall be made of woven polypropylene fabric.
- 4.1.2 The sack shall be made of one ply or more plies and may be equipped with a liner in accordance with EN 1086.
- 4.1.3 The sack may be flat or gusseted.
- 4.1.4 The empty sack, laid flat, shall have a rectangular shape.
- 4.1.5 The closure of the filled sack shall be designed to prevent leakage of the product during transport.
- 4.1.6 Materials other than natural materials used in the manufacture and closure of the sack (inner liner excluded) shall have a UV-resistance in accordance with 5.7.3. These materials can be tested in the construction in which they are used in the sack.

4.2 Dimensions

4.2.1 The dimensions of the empty sack shall be chosen so that, if necessary, after filling the dimensions of the filled sack comply with the dimensions of the unit load as specified in ISO 3676.

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- 4.2.2 The dimensional tolerances of the sack should be agreed upon between the purchaser and the supplier.
- 4.2.3 The dimensions and the dimensional tolerances of the sack shall be recorded in the ordering documents.
- 4.2.4 The description of the dimensions, the method of measuring the dimensions and the dimensional designation of the sack shall be in accordance with EN 26591-2.

NOTE: Though EN 26591-2 is valid for sacks made of thermoplastic flexible film it can be applied to sacks made of woven polypropylene fabric. However for some forms of sacks made of woven polypropylene fabric EN 26591-2 cannot be applied. A third part of ISO 6591 will be prepared by ISO/TC122/SC2 "Packaging-sacks". This third part will deal with sacks made of woven fabric.

4.3 Food compatibility

Sacks which come in contact with foodstuffs shall meet the legal requirements of the CEN member states which are applicable to them.

5 Test methods and test requirements

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- 5.1 Sampling
- 5603362a4b5d/sist-en-277-1998
- 5.1.1 The sampling shall be done in accordance with EN 27023.

 NOTE: Table 1 of EN 27023:1992 refers to the selection of units. Table
 2 of EN 27023:1992 refers to the selection of sacks out of each selected unit.
- 5.1.2 The sampling shall be done at the date the empty sacks are ready for dispatch by the supplier.
- 5.1.3 In case resampling is necessary it shall be done in accordance with EN 27023.
- If, as a result of an accident during sampling or testing, resampling is necessary, a new sample shall be taken following the procedure specified in EN 27023. Selection may then, however, be made from the same units as before unless agreed otherwise.
- If, for any other reason, resampling is necessary, the procedure followed shall follow the specifications of EN 27023 as closely as possible.

5.2 Conditioning

- 5.2.1 Before testing all samples shall be conditioned in accordance with EN 22233:1992 condition G (temperature $+23^{\circ}C \pm 2^{\circ}C$, relative humidity 50% \pm 5%).
- 5.2.2 The period of conditioning of the samples shall be not less than 8 h.
- 5.2.3 The various tests as described shall be carried out in the same atmospheric conditions as used for conditioning, see 5.2.1, or, if not possible, the tests shall commence within 10 min after removing the samples from the conditioning atmosphere.

5.3 Surface identification

If necessary the identification of the various surfaces of the filled sacks when testing shall be as given in EN 22206.

5.4 Date of completion of tests

All tests shall be completed within four weeks after the date the empty sacks are ready for dispatch by the supplier DARD PREVIEW

5.5 Determination of the breaking strength ai)

The determination of the breaking strength of the material of the sack shall be carried out in accordance with 150 5081 using the conditioning requirements of 5.2 of this European Standard. 5603362a4b5d/sist-en-277-1998

The obtained value will constitute the reference from which the acceptability of the UV-resistance test as defined in 5.7 will be determined.

5.6 Drop test

5.6.1 Test method

The drop test shall be carried out in accordance with EN 27965-1:1992 using the constant drop height method.

5.6.2 Filling of the sacks

The sacks shall be filled with the intended commodity or, if this is not possible, with similar material, taking into account type and size of granules etc., to give the same degree of filling. The mass of the filling material shall be within \pm 0,2 % of that of the nominal mass of the intended contents of the sack.

5.6.3 Test procedure

5.6.3.1 Drop test sequence