
International Standard



4167

INTERNATIONAL ORGANIZATION FOR STANDARDIZATION • МЕЖДУНАРОДНАЯ ОРГАНИЗАЦИЯ ПО СТАНДАРТИЗАЦИИ • ORGANISATION INTERNATIONALE DE NORMALISATION

Polyolefin agricultural twines

Ficelles agricoles en polyoléfine

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Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards institutes (ISO member bodies). The work of developing International Standards is carried out through ISO technical committees. Every member body interested in a subject for which a technical committee has been set up has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work.

Draft International Standards adopted by the technical committees are circulated to the member bodies for approval before their acceptance as International Standards by the ISO Council.

International Standard ISO 4167 was developed by Technical Committee ISO/TC 38, *Textiles*, and was circulated to the member bodies in April 1978.

It has been approved by the member bodies of the following countries :

Belgium	India	Romania
Canada	Iran	South Africa, Rep. of
Czechoslovakia	Israel	Spain
Egypt, Arab Rep. of	Japan	Sweden
Finland	Korea, Rep. of	Switzerland
France	Netherlands	Turkey
Germany, F. R.	New Zealand	United Kingdom
Ghana	Poland	USSR
Hungary	Portugal	

The member bodies of the following countries expressed disapproval of the document on technical grounds :

Australia
Italy
USA

Polyolefin agricultural twines

1 Scope and field of application

This International Standard establishes the principal properties of polyolefin¹⁾ agricultural twines, prescribes methods of test permitting their verification and specifies the form of commercial presentation for the twines.

NOTE — This International Standard deals only with Z-twist twine since development work was concerned with this product only. It will eventually be extended to cover untwisted and S-twist twine when the appropriate work has been carried out.

2 References

ISO 2, *Textiles — Designation of the direction of twist in yarns and related products.*

ISO 139, *Textiles — Standard atmosphere for conditioning and testing.*

ISO 2076, *Man-made fibres — Generic names.*

ISO 3534, *Statistics — Vocabulary and symbols.*

3 Definition

agricultural twine : A simple yarn intended to be used in agriculture, notably for binding the bundles on automatic pick-up balers or on similar machines.

4 Designation

A twine conforming to this International Standard is designated by the term "agricultural twine", followed by the name of the

material used, its code number and the number of this International Standard.

Example of designation : a polypropylene agricultural twine having a runnage of 330 m/kg is designated as follows :

"Polypropylene agricultural twine No. 330/ISO 4167."

5 Raw material

The raw material used for the manufacture of twine shall consist of high-quality polyolefin.

Adequate stabilization against degradation by sunlight shall be incorporated. Any ultra-violet (U.V.) inhibitor system may be used, such as pigmentation by carbon black, iron(III) oxide or other suitable colouring medium or special U.V. inhibitors consisting of, for example, selected nickel salts.

Attention is drawn to the fact that in some areas of the world a more stringent level of stabilization may be necessary than in others.

The colour of the twine shall be distinguishable from straw or grass.

6 Manufacture

Each spool of twine shall be capable of working with continuity throughout its length.

The twine shall have a Z twist (twist direction as defined in ISO 2).

1) The term "polyolefin" implies principally polypropylene and high-density polyethylene.