

INTERNATIONAL STANDARD

ISO
8516

First edition
1987-05-15



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

Textile glass — Textured yarns — Basis for a specification

Verre textile — Fils texturés — Base de spécification

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ISO 8516:1987

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Reference number
ISO 8516:1987 (E)

Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established 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. They are approved in accordance with ISO procedures requiring at least 75 % approval by the member bodies voting.

International Standard ISO 8516 was prepared by Technical Committee ISO/TC 61, *Plastics*.

Users should note that all International Standards undergo revision from time to time and that any reference made herein to any other International Standard implies its latest edition, unless otherwise stated.

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Textile glass — Textured yarns — Basis for a specification

1 Scope and field of application

This International Standard provides a basis of specification applicable to textured yarns made from textile glass. Textured glass yarn is a textile glass continuous filament yarn (single or folded) in which the filaments have been deliberately and permanently separated to increase the bulk of the yarn (see ISO 6355).

Textured glass yarns can be produced by several types of process. They can be made either starting from a single strand or from two or more strands in which one or all have been "opened" to give the "bulky" aspect of textured yarn.

Textured glass yarn is used in various applications, for example insulation, filtration, decorative textiles, reinforcement of plastics, fabrication of packings.

2 References

ISO 1886, *Textile glass — Method of sampling applicable to batches.*

ISO 1887, *Textile glass — Determination of combustible matter content.*

ISO 1888, *Textile glass — Determination of the average diameter of staple fibres or continuous filaments constituting a textile glass yarn — Cross-section method.*

ISO 1889, *Textile glass products — Continuous filament yarns, staple fibre yarns and rovings in the form of packages — Determination of linear density.*

ISO 2078, *Textile glass yarns — Designation.*

ISO 3341, *Textile glass — Yarns — Determination of breaking force and breaking elongation.*

ISO 3344, *Textile glass products — Determination of moisture content.*

ISO 6355, *Textile glass — Vocabulary.*

3 Sampling plan and acceptance criteria

Sampling shall be carried out in accordance with ISO 1886. The supplier shall indicate in his specifications the method of sampling (attributes or variables) and the acceptable quality level for the various characteristics of the applicable yarn.

4 Designation

The designation shall conform to ISO 2078.

5 Physical properties

Unless otherwise agreed, the textured glass yarns shall be defined by the following characteristics for which nominal values and tolerances shall be given in the technical specifications of suppliers.

5.1 Type of glass

Various types of glass are used in the production of textured yarns. A list of available glass types is given in ISO 2078.

5.2 Size

The texturizing process requires the use of yarn covered with a size allowing an appropriate lubrication during texturization. This size can be eliminated after weaving by a heat-cleaning treatment, if necessary. Size content shall be determined according to ISO 1887.

5.3 Average filament diameter

Average filament diameter shall be determined according to ISO 1888.

5.4 Linear density

Linear density shall be determined according to ISO 1889, but care shall be taken to adjust pretension to the level required for staple fibre yarns.

5.5 Moisture content

Moisture content shall be determined according to ISO 3344.

5.6 Breaking load

Textured yarn may present a strength at elastic yield much inferior to the breaking load. If this is the case, the specifications of the supplier shall indicate the minimum value for the strength at elastic yield and for the breaking strength, as determined according to ISO 3341.

6 Visual properties — Defects

The technical specifications of suppliers shall indicate the normal visual characteristics and defects that can be present on the yarns and packages (see examples in 6.1 and 6.2). The acceptable level in number or importance shall be agreed between supplier and buyer. If necessary, reference samples shall be kept by the supplier in order to appraise any disputed packages especially for defects (see 6.1) Nos. 6.1.3, 6.2.2, 6.2.3 and 6.2.10.

6.1 Visible defects of yarn

6.1.1 Dirty yarn.

6.1.2 Incorrect number of ends or mixed yarn.

6.1.3 Lack of texturization.

6.1.4 Damaged yarn.

6.1.5 Fuzz balls; slubs.

6.1.6 Knot or splice (when not acceptable).

6.1.7 Badly made knot or splice (in case they are allowed).

6.2 Visible defects of packages

6.2.1 Bad package build.

6.2.2 Package too soft.

6.2.3 Package too hard.

6.2.4 Trapped end or foreign yarn.

6.2.5 Entrapped foreign matter.

6.2.6 Sloughed yarn.

6.2.7 Dirt spots.

6.2.8 Damaged yarn package.

6.2.9 Incorrect identification.

6.2.10 Shiny yarn (due to lack of size or to lack of texturization).

6.2.11 Dirty or incorrectly joined (or transferred) ends or non-joined ends (when joined ends were specified).

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7 Presentation (Package type) — Packaging — Storage

Supplier specifications shall give all needed instructions regarding the presentation of packages, the packaging system and the recommendations for the storage of textured yarn.

UDC 666.189.2

Descriptors : textile glass, textile glass yarns, standardization documents, specifications.

Price based on 2 pages
