
International Standard



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Textile glass — Rovings — Basis for a specification

Verre textile — Stratifils — Base de spécification

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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 2797 was prepared by Technical Committee ISO/TC 61, *Plastics*.

This second edition cancels and replaces the first edition (ISO 2797-1974), clause 3 and sub-clauses 6.2, 6.4.2 and 6.4.12 of which have been technically revised.

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.

Textile glass — Rovings — Basis for a specification

0 Introduction

A basis for a specification is intended to serve as a guide for the establishment of technical specifications for products of given type.

It should enumerate as completely as possible the points that should be considered at the time of writing the specifications that will apply to a particular product or a family of products whose characteristics are very much related. These specifications may be established by a producer, a supplier, a user or a standardization organisation.

1 Scope and field of application

This International Standard establishes a basis for a specification for textile glass rovings, whether direct rovings or assembled rovings.

2 References

- ISO 139, *Textiles — Standard atmospheres for conditioning and testing.*
- ISO 178, *Plastics — Determination of flexural properties of rigid plastics.*
- ISO 291, *Plastics — Standard atmospheres for conditioning and testing.*
- ISO 472, *Plastics — Vocabulary.*
- ISO 1144, *Textiles — Universal system for designating linear density (Tex system).*
- 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.*¹⁾

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

ISO 2078, *Textile glass yarns — Designation.*

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

ISO 3375, *Textile glass — Determination of stiffness of rovings.*

ISO 3597, *Textile glass reinforced plastics — Composites in the form of rods made from textile glass rovings — Determination of flexural (cross-breaking) strength.*

ISO 3605, *Textile glass reinforced plastics — Composites in the form of rods made from textile glass rovings — Determination of compressive strength.*

ISO 4585, *Textile glass reinforced laminates and other laminates — Determination of interlaminar shear properties by short-beam test.*²⁾

ISO 6355, *Textile glass — Vocabulary.*

3 General

Rovings may be divided into two main groups, namely:

- rovings that are chopped during subsequent operations (for example rovings for spray-up, for preform, for continuous laminating, for preimpregnated SMC mat, etc.);
- rovings that are utilized without being chopped (for example rovings for winding, for weaving, for pultrusion, etc.).

1) This standard is now under revision. New version will also include the longitudinal projection method.

2) At present at the stage of draft.