
**Textile glass — Chopped-strand and
continuous-filament mats — Determination
of average thickness, thickness under load
and recovery after compression**

*Verre textile — Mats à fils coupés et mats à fils continus — Détermination
de l'épaisseur moyenne, de l'épaisseur sous charge et de la recouvrance
après compression*



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Printed in Switzerland

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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. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 3.

Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

Attention is drawn to the possibility that some of the elements of this International Standard may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights.

International Standard ISO 3616 was prepared by Technical Committee ISO/TC 61, *Plastics*, Subcommittee SC 13, *Composites and reinforcement fibres*.

This second edition cancels and replaces the first edition (ISO 3616:1977), in which the title and scope clause have been reworded to indicate clearly that the standard applies to chopped-strand and continuous-filament mats.

Textile glass — Chopped-strand and continuous-filament mats — Determination of average thickness, thickness under load and recovery after compression

1 Scope

This International Standard specifies a method for the determination of the average thickness, the thickness under load and the recovery after compression of chopped-strand and continuous-filament textile-glass mats.

2 Normative references

The following normative documents contain provisions which, through reference in this text, constitute provisions of this International Standard. For dated references, subsequent amendments to, or revisions of, any of these publications do not apply. However, parties to agreements based on this International Standard are encouraged to investigate the possibility of applying the most recent editions of the normative documents indicated below. For undated references, the latest edition of the normative document referred to applies. Members of ISO and IEC maintain registers of currently valid International Standards.

ISO 291, *Plastics — Standard atmospheres for conditioning and testing.*

ISO 1886, *Reinforcement fibres — Sampling plans applicable to received batches.*

ISO 3374, *Reinforcement products — Mats and fabrics — Determination of mass per unit area.*

3 Terms and definitions

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

3.1

average thickness

the thickness of a mat, in millimetres, measured in accordance with the specified method, under a specified nominal light pressure

NOTE The average thickness determined by this method does not necessarily bear a direct relation to the thickness of a single layer. The regularity of thickness of a mat must be measured on a single layer and with apparatus with a much smaller contact area than that specified in this International Standard.

3.2

thickness under load

the thickness of a mat, measured in accordance with the specified method, under a specified heavy pressure applied for a specified time, expressed as a percentage of the initial average thickness

3.3

recovery after compression

the thickness to which the mat recovers after a specified interval following removal of the specified heavy pressure, expressed as a percentage of the initial average thickness