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Plastics — Poly(methyl methacrylate) double- and triple-skin sheets — Test methods

Plastiques — Plaques de poly(méthacrylate de méthyle) à double et triple paroi — Méthodes d'essai

Reference number
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Foreword

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The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular, the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

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This document was prepared by Technical Committee ISO/TC 61, *Plastics*, Subcommittee SC 11, *Products,* in collaboration with the European Committee for Standardization (CEN) Technical Committee CEN/TC 249, *Plastics,* in accordance with the Agreement on technical cooperation between ISO and CEN (Vienna Agreement).

This second edition cancels and replaces the first edition (ISO 12017:1995), of which it constitutes a minor revision.

The changes compared to the previous edition are as follows:

— the normative reference clause (Clause 2) has been updated.

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at www.iso.org/members.html.

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Plastics — Poly(methyl methacrylate) double- and triple-skin sheets — Test methods

1 Scope

This document specifies the test methods for quality control of poly(methyl methacrylate) (PMMA) extruded double- and triple-skin flat sheets, obtained from colourless and coloured transparent, translucent and opaque grades of materials.

The minimum sheet width is 600 mm.

The main applications of these sheets are in building and agriculture (greenhouses).

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 2818, *Plastics — Preparation of test specimens by machining*

ISO 4892-2, *Plastics — Methods of exposure to laboratory light sources — Part 2: Xenon-arc sources*

ISO 7823-2:2003, *Plastics — Poly(methyl methacrylate) sheets — Types, dimensions and characteristics — Part 2: Melt-calendered extruded sheets*

ISO 8302, *Thermal insulation — Determination of steady-state thermal resistance and related properties — Guarded hot plate apparatus*

ISO 10140-2, *Acoustics — Laboratory measurement of sound insulation of building elements — Part 2: Measurement of airborne sound insulation*

ISO 10140-5, *Acoustics — Laboratory measurement of sound insulation of building elements — Part 5: Requirements for test facilities and equipment*

ISO 12999-1, *Acoustics — Determination and application of measurement uncertainties in building acoustics — Part 1: Sound insulation*

3 Terms and definitions

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

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

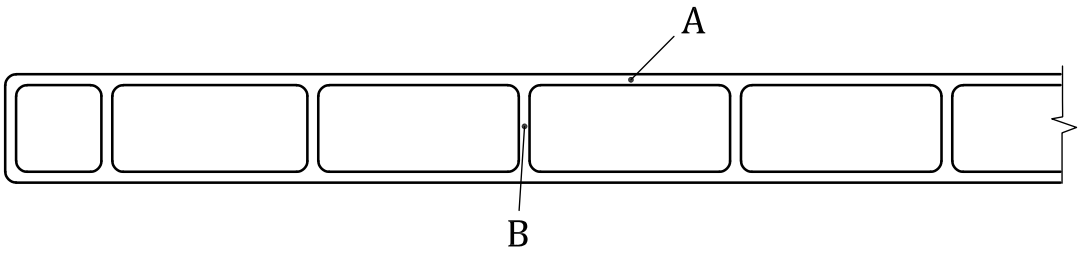
— ISO Online browsing platform: available at https://www.iso.org/obp

— IEC Electropedia: available at http://www.electropedia.org/

3.1
double-skin sheet
DSS
sheet having two parallel external skins, differently spaced and jointed by ribs of different shapes

Note 1 to entry: See Figures 1 and 2.

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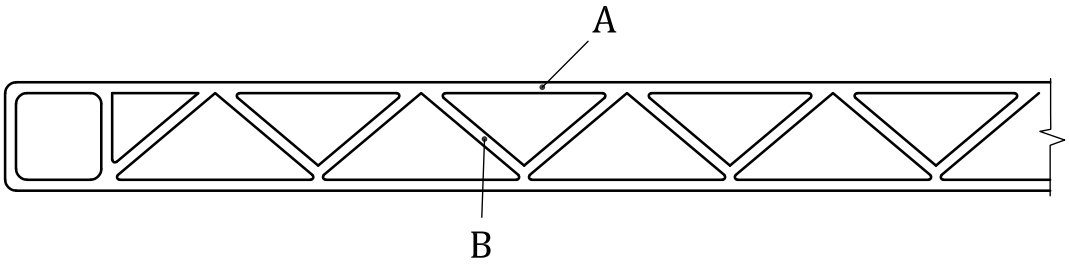


Key

A skin

B rib

Figure 1 — Example of a double-skin sheet



Key

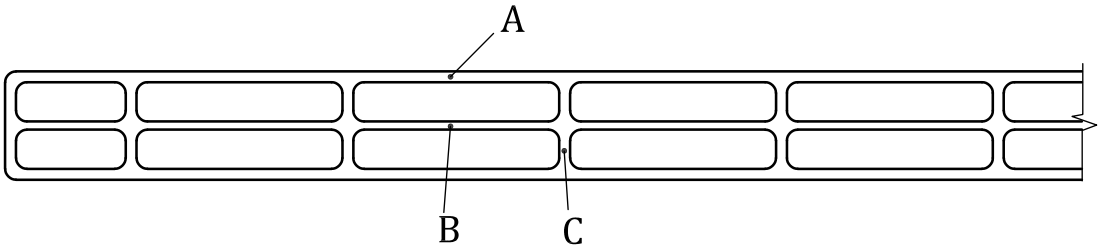
A skin

B rib

Figure 2 — Example of a double-skin sheet

3.2
triple-skin sheet
TSS
sheet having two external and an internal skin which is parallel and properly spaced by ribs from the external one

Note 1 to entry: See Figure 3.



Key

A skin

B internal skin

C rib

Figure 3 — Example of a triple-skin sheet

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