
**Tools for moulding — Thermal insulating
sheets for injection moulds**

*Outillage de moulage — Feuilles d'isolation thermique dans les moules
d'injection*

STANDARDSISO.COM : Click to view the full PDF of ISO 15600:2000



PDF disclaimer

This PDF file may contain embedded typefaces. In accordance with Adobe's licensing policy, this file may be printed or viewed but shall not be edited unless the typefaces which are embedded are licensed to and installed on the computer performing the editing. In downloading this file, parties accept therein the responsibility of not infringing Adobe's licensing policy. The ISO Central Secretariat accepts no liability in this area.

Adobe is a trademark of Adobe Systems Incorporated.

Details of the software products used to create this PDF file can be found in the General Info relative to the file; the PDF-creation parameters were optimized for printing. Every care has been taken to ensure that the file is suitable for use by ISO member bodies. In the unlikely event that a problem relating to it is found, please inform the Central Secretariat at the address given below.

STANDARDSISO.COM : Click to view the full PDF of ISO 15600:2000

© ISO 2000

All rights reserved. Unless otherwise specified, no part of this publication may be reproduced or utilized in any form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from either ISO at the address below or ISO's member body in the country of the requester.

ISO copyright office
Case postale 56 • CH-1211 Geneva 20
Tel. + 41 22 749 01 11
Fax + 41 22 734 10 79
E-mail copyright@iso.ch
Web www.iso.ch

Printed in Switzerland

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 15600 was prepared by Technical Committee ISO/TC 29, *Small tools*, Subcommittee SC 8, *Tools for pressing and moulding*.

STANDARDSISO.COM : Click to view the full PDF of ISO 15600:2000

STANDARDSISO.COM : Click to view the full PDF of ISO 15600:2000

Tools for moulding — Thermal insulating sheets for injection moulds

1 Scope

This International Standard lays down the basic dimensions and tolerances, in millimetres, of type A and B thermal insulating sheets for plastic and rubber moulds. Thermal insulating sheets are used in applications where heat transmission between injection mould and machine platen has to be reduced. This International Standard also gives material guidelines and design requirements, and specifies the designation of the insulating sheets.

The dimensions of the sheets have been chosen to match those of mould plates specified in ISO 6753-2. For type B sheets measuring 156 mm × 156 mm and larger, the diameter of the hole has been chosen to match the fitting diameter (∅ 90 mm) of locating rings.

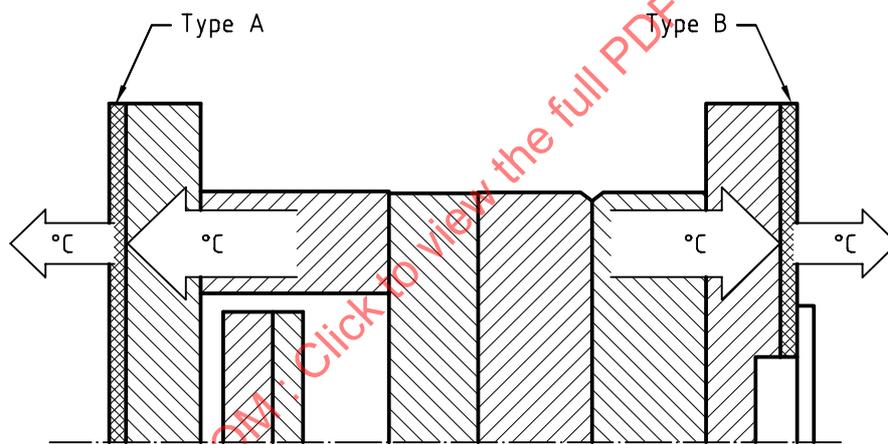


Figure 1 — Example of mounting of thermal insulation sheets

2 Dimensions

See Figures 2 and 3 and Table 1.

For type B thermal insulating sheets, where $w \times l$ is smaller than 156 mm × 156 mm, the diameter of the hole is left to the manufacturer's discretion.

Dimensions in millimetres

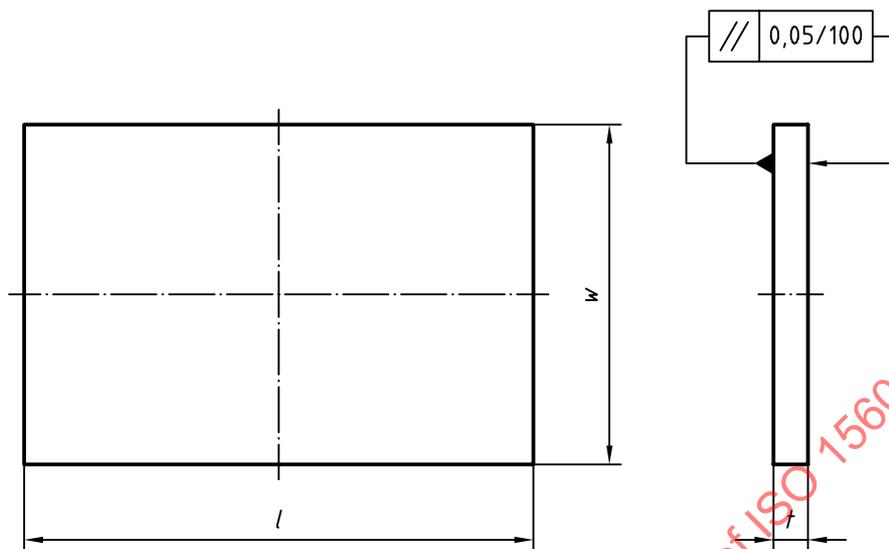


Figure 2 — Type A thermal insulating sheet

Dimensions in millimetres

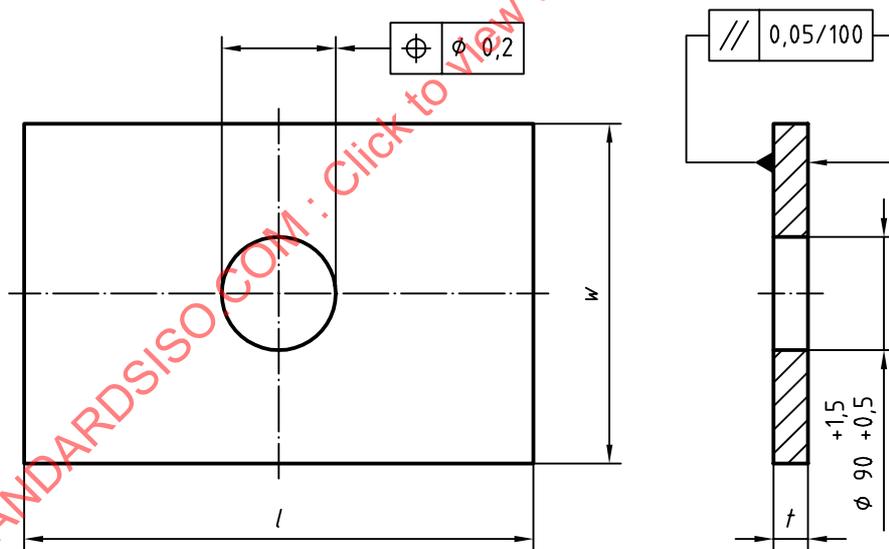


Figure 3 — Type B thermal insulating sheet

Table 1 — Dimensions of type A and B thermal insulating sheets

Dimensions in millimetres

Dimensions			Dimensions			Dimensions					
<i>w</i>	<i>l</i>	<i>t</i>	<i>w</i>	<i>l</i>	<i>t</i>	<i>w</i>	<i>l</i>	<i>t</i>			
-2,0 -2,5	-2,0 -2,5	-0,2 -0,4	-2,0 -2,5	-2,0 -2,5	-0,2 -0,4	-2,0 -2,5	-2,0 -2,5	-0,2 -0,4			
96	× 96	6	310	× 310	6 and 10	556	× 556	10			
	× 120			× 350			× 626				
120	× 120	6		× 396			× 706				
	× 156			× 446			× 796				
156	× 156	6		× 496			× 896				
	× 196			× 556			× 996				
	× 220			× 626			× 1 116				
	× 246			350			× 350		6 and 10	× 626	10
	× 276						× 396				
	× 310						× 446				
× 396	× 496										
196	× 196	6	× 556	× 706							
	× 220		× 796								
	× 246		× 896								
	× 276		× 996								
	× 310		× 1 116								
	× 350		396	× 396	6 and 10	× 706	10				
× 396	× 446										
220	× 220	6		× 496		× 796					
	× 246			× 896							
	× 276		× 996								
	× 310		× 1 116								
	× 350		× 446	446	6 and 10	× 706	10				
	× 396		× 496								
× 446	× 556										
× 496	× 626										
246	× 246	6	× 706	× 796							
	× 276		× 896								
	× 310		× 996								
	× 350		× 1 116								
	× 396		× 496	496	6 and 10	× 496	10				
	× 446		× 556								
× 496	× 626										
× 556	× 706										
276	× 276	6	× 796	× 896							
	× 310		× 996								
	× 350		× 1 116								
	× 396		× 496	496	6 and 10	× 496	10				
	× 446		× 556								
	× 496		× 626								
× 556	× 706										

3 Material

The type of material is left to the manufacturer's discretion.

4 Design requirements

The compressive strength shall be a minimum of 170 N/mm² at 140 °C, and a minimum of 100 N/mm² at 200 °C.

The coefficient of thermal conductivity, λ , shall be at maximum 0,3 W/mK.

5 Designation

Thermal insulating sheets according to this International Standard shall be designated by:

- a) "Thermal insulating sheet";
- b) a reference to this International Standard, i.e. ISO 15600;
- c) the type (A or B);
- d) the length, l , in millimetres;
- e) the width, w , in millimetres;
- f) the thickness, t , in millimetres.

EXAMPLE A thermal insulating sheet of type A, of length, $l = 96$ mm, width, $w = 96$ mm and with thickness, $t = 6$ mm is designated as follows:

Thermal insulating sheet ISO 15600 A - 96 × 96 × 6

STANDARDSISO.COM : Click to view the full PDF of ISO 15600:2000