

Australian Standard[®]

**Materials for solar collectors for
swimming pool heating**

**Part 2: Flexible or plasticized
polyvinyl chloride**

This Australian Standard was prepared by Committee CS/28, Solar Water Heaters. It was approved on behalf of the Council of Standards Australia on 9 December 1992 and published on 13 April 1993.

The following interests are represented on Committee CS/28:

Australian and New Zealand Solar Energy Society
Australian Gas Association
Department of Mineral Resources, N.S.W.
Department of Mines and Energy, N.T.
Department of Primary Industries and Energy
Electricity Supply Association of Australia
Energy Research Centre
Engineering and Water Supply Department, S.A.
Master Plumbers and Mechanical Services Association of Victoria
Metal Trades Industry Association of Australia
Renewable Energy Authority, Victoria
Solar Energy Industries Association of Australia
University of New South Wales

Additional interests participating in preparation of Standard:

Plastics Institute of Australia
Rubber Manufacturers Association of Australia

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STANDARDS AUSTRALIA

RECONFIRMATION
OF
AS 2369.2—1993
Materials for solar collectors for swimming pool heating
Part 2: Flexible or plasticized polyvinyl chloride

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Approved for reconfirmation in accordance with Standards Australia procedures for reconfirmation on 1 May 2013.

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NOTES

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First published as AS 2369.2(Int)—1990.
Revised and issued as AS 2369.2—1993.

PUBLISHED BY STANDARDS AUSTRALIA
(STANDARDS ASSOCIATION OF AUSTRALIA)
1 THE CRESCENT, HOMEBUSH, NSW 2140

PREFACE

This Standard was prepared by the Standards Australia Committee on Solar Water Heaters and supersedes AS 2369.2(Int)—1990, *Materials for solar collectors for swimming pool heating, Part 2: Flexible or plasticized polyvinyl chloride*.

Heating of swimming pools to extend the swimming season is becoming popular in the cooler regions of Australia, and solar heating is being recognized as cost effective for this purpose. A Standard for solar heating of swimming pools has been prepared, and in addition to this it was felt that a Standard specifying the necessary properties of collectors was needed. The use of elastomeric collector strips is common both for household and public pool heating and this part of the Standard deals with polyvinyl chloride.

The revision of AS 2369.2(Int)—1990 was requested by the Solar Energy Industry Association of Australia following a number of failings in the field of ultra-thin plasticized PVC collectors and this revised document, now a full Standard, incorporates changes to the pressure levels of the burst pressure at hot ambient and 45°C temperature.

Another change from the previous edition is the inclusion of a plasticizer compatibility test in the list of requirements for PVC tubing.

The requirements of this Standard are based on well established test methods for elastomeric materials. The tests have been selected for their relevance to collector performance and service life.

Although this Standard cannot qualify service life due to the difficulty in defining and controlling the many factors which affect solar collectors, the criteria used herein are based on the performance of materials that have been shown to have a satisfactory performance in pool heating applications.

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