

Australian Standard[®]

**DOMESTIC GARDEN HOSE
Part 2—UNREINFORCED HOSE**

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Australian Federation of Consumer Organizations Inc.
Australian Retailers Association
Confederation of Australian Industry
Plastics Institute of Australia Inc.

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Part 2—UNREINFORCED HOSE**

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PREFACE

This standard was prepared by the Association's Committee for PVC Garden Hose under the direction of the Plastics Standards Board. It is intended to afford guidance to manufacturers regarding necessary requirements for unreinforced garden hose such that the hose will give reasonable performance under normal Australian climatic conditions.

This standard constitutes Part 2 of the standard for domestic garden hose and is a revision of AS N39—1963, PVC Garden Hose, which was withdrawn in 1979. Part 1 covers reinforced garden hose. Each part lays down requirements for minimum wall thickness, ability to withstand pressure, low temperature flexibility and accelerated exposure, together with relevant methods of test. The sizes of hose that were in AS N39 have been 'soft' metricated.

No requirements for appearance have been included in either Part 1 or Part 2 as the defects described were of a qualitative nature and could not be sensibly quantified. Where it is considered that the presence of any defects such as foreign matter, undispersed raw materials, die lines or striations may adversely affect the performance of a hose, arrangements should be made between purchaser and supplier.

AS N39 specified that the bore of the hose be smooth. No method of test was included and assessment was entirely subjective. In the preparation of this standard, it was found that testing to determine smoothness could be both difficult and expensive and a very large degree of roughness was necessary before any significant difference in flow-rate was obtained.

The committee also examined the problem of hoses kinking and reference was made to various BSI and ISO test methods. The criterion specified in the ISO standard was a minimum bend radius of five times the minimum hose bore and all hoses commonly available were found to be able to easily meet this requirement without kinking. However, the same hoses could be made to kink if they were subjected to mishandling during uncoiling or if there was a failure to notice the hose twisting around an object in its path. In this respect it was decided that inclusion of a test of this nature would serve little purpose.

It should be noted that garden hose is not intended to be used for the conveyance of potable water, unless the manufacturer states otherwise, and in such cases the composition would comply with AS 2070, Plastics Materials for Food Contact Use.

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