

Australian Standard™

AS 3572.1

Plastics—Glass filament reinforced plastics (GRP)—Methods of test**Method 1: Preparation of glass filament reinforced plastics test specimens****1 SCOPE**

This Standard sets out a method for the preparation of test specimens of glass filament reinforced plastics.

2 REFERENCED DOCUMENTS

The following document is referred to in this Standard:

AS

3572 Plastics—Glass filament reinforced plastics (GRP)—Methods of test

3572.2 Method 2: Determination of chemical resistance of glass filament reinforced plastics

3 PREPARATION OF TEST SPECIMENS

Test specimens shall be cut, where possible, from waste areas that are representative of finished production batches that have not been subject to rejection; otherwise, test specimens shall be cut from laminates prepared by the same construction method and material and by the same techniques as the fabricated item. Where unreinforced plastics are to be tested, the resins used in the preparation of test specimens shall be the same as those used in the construction of the fabricated item and they shall be prepared in the same manner.

NOTES:

- 1 Test specimens from waste areas should not be taken from an area subject to process variations, e.g. voids, poor glass distribution, etc. These may occur near edges.
- 2 Where the fabricated item is to be post-cured, the same conditions should be used to post-cure test specimens.

Both the internal and external surface layers of test specimens prepared for testing according to AS 3572.2 shall include a corrosion barrier, and all cut edges and support holes shall be sealed with the same resin as was used in the construction of the laminate.

All test specimens shall be tested within 28 days of preparation.

4 CONDITIONING

For referee tests, the test specimen shall be conditioned in air at a temperature of $23 \pm 2^\circ\text{C}$ and $50 \pm 5\%$ relative humidity for a minimum of 24 h prior to testing. For other tests the test specimen may be conditioned at ambient conditions for 24 h prior to testing.



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The following interests are represented on Committee PL-044:

Australian Chamber of Commerce and Industry
Composites Association of New Zealand
Composites Institute of Australia
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Master Plumber Australia
New Zealand Manufacturers' Federation
Plastics and Chemical Industries Association
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