

Australian Standard™

AS 3572.7

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

Method 7: Determination of extension to failure of unreinforced resins

1 SCOPE

This Standard sets out a method for determining the extension to failure of unreinforced resins.

2 REFERENCED DOCUMENTS

The following document is referred to in this Standard:

AS

- 3572 Plastics—Glass filament reinforced plastics (GRP)—Methods of test
3572.1 Method 1: Preparation of glass filament reinforced plastics test specimens

3 APPARATUS

The following is required:

- (a) A power-driven tensile testing machine equipped with grips capable of being separated at a constant rate of 5 ± 1 mm/min.
- (b) Means by which the extension to failure can be measured during testing.

4 PREPARATION OF TEST SPECIMENS

Test specimens shall be of the shape and dimensions shown in Figure 1. Five test specimens shall be tested.

5 CONDITIONING

Test specimens shall be conditioned in accordance with AS 3572.1. Except for referee tests, conditioning shall be at ambient conditions.

6 PROCEDURE

The procedure shall be as follows:

- (a) Mount the test specimen in the tensile testing machine in axial alignment with the direction of pull.
- (b) Load the test specimen by separating the grips at a constant rate of 5 ± 1 mm/min, until failure occurs. Measure the extension of the test specimen during the test up to the point of fracture.