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

### Method 7: Determination of extension to failure of unreinforced resins

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#### 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  $5 \pm 1$  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  $5 \pm 1$  mm/min, until failure occurs. Measure the extension of the test specimen during the test up to the point of fracture.