

Australian Standard™

AS 3572.3

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

Method 3: Determination of loss on ignition of glass filament reinforced plastics

1 SCOPE

This Standard sets out a method for determining the percentage by mass of resin in glass filament reinforced plastics.

NOTES:

- 1 Where reinforced plastics contain organic fillers, or if the resin is incompletely combustible, the percentage by mass resin content cannot be determined directly by this method.
- 2 Glass content may be calculated directly provided no inorganic fillers are present.

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 apparatus is required:

- (a) *Crucibles* Three of platinum or porcelain, each of approximately 30 mL capacity.
- (b) *Muffle furnace* Capable of maintaining temperature in the range 600°C to 625°C.
- (c) *Desiccator*
- (d) *Balance* Capable of weighing to an accuracy of ± 0.01 g.
- (e) *Fume cupboard*

4 TEST SPECIMENS

Three specimens, each of minimum mass 10 g shall be cut from a test panel and the resin-rich layer removed by machining. Edges of test specimens shall be machined back to a hard, green surface.

5 CONDITIONING

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