

Australian Standard™

Methods for testing flexible cellular polyurethane

Method 16: Determination of ash content

PREFACE

This Standard was prepared by the Standards Australia Committee PL/36, Flexible Polyurethane, to supersede AS 2282.16—1991.

METHOD

1 SCOPE This Standard provides a method for determining the ash content of flexible cellular polyurethane material using an electrothermal radiant heater.

2 REFERENCED DOCUMENTS The following documents are referred to in this Standard:

AS

2282 Methods for testing flexible cellular polyurethane

2282.1 Method 1: Sampling and conditioning of test specimen

3 PRINCIPLE A known mass of the sample is heated in air to $700 \pm 30^\circ\text{C}$ for a period of 90 min, or until constant in mass. The percentage of ash is calculated from the mass of the residue remaining after incineration.

4 APPARATUS

4.1 Electrothermal radiant heater—suitable for heating test tubes, beakers, and crucibles to a temperature of $700 \pm 30^\circ\text{C}$ in the laboratory environment.

NOTE: The 400 W 'Electric Bunsen' and power controller supplied by FSE Pty Ltd is a suitable heater.

4.2 Crucible—a cylindrical crucible of silica, of minimum dimensions 57 mm diameter \times 37 mm deep.

4.3 Pipe clay triangle—suitable for supporting the crucible.

4.4 Thermocouple—a surface probe capable of measuring temperatures in the range $0\text{--}1200 \pm 2^\circ\text{C}$.

4.5 Desiccator

4.6 Analytical balance—capable of weighing to 0.1 mg.