

Australian Standard™

Methods for testing flexible cellular polyurethane

Method 15: Determination of smoke release

PREFACE

This Standard was prepared by the Standards Australia Committee PL/36, Flexible Polyurethane, to supersede AS 2282.15—1991.

This test method has been developed to assess the combustion characteristics of polyurethane foams. It is anticipated that this test would be performed in conjunction with the flame propagation test of AS 2122.1 and would require the use of the test equipment and test specimens used in that test procedure.

The combustion characteristics of a material are complex and a series of tests would be required to specify all combustion characteristics (e.g. ignition time, flame propagation, heat release, smoke release, toxicity, and dripping behaviour).

METHOD

1 SCOPE This Standard describes the method for determining the level of smoke release when a small, vertically oriented specimen of flexible cellular plastics of density less than 100 kg/m³, is exposed to a small flame.

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

AS

2122 Combustion characteristics of plastics

2122.1 Part 1: Determination of flame propagation—Surface ignition of vertically oriented specimens of cellular plastics

2282 Methods for testing flexible cellular polyurethane

2282.1 Method 1: Sampling and conditioning of test specimens

2282.3 Method 3: Determination of apparent density

2484 Fire—Glossary of terms

2484.1 Part 1: Fire tests

3 DEFINITIONS For the purpose of this Standard the definitions of AS 2484.1 apply.