

STANDARDS AUSTRALIA/STANDARDS NEW ZEALAND

RECONFIRMATION

OF

AS/NZS 1462.27:2003

Methods of test for plastics pipes and fittings

Method 27: Determination of toluene extract of carbon black

RECONFIRMATION NOTICE

Technical Committee PL-006 has reviewed the content of this publication and in accordance with Standards Australia procedures for reconfirmation, it has been determined that the publication is still valid and does not require change.

Certain documents referenced in the publication may have been amended since the original date of publication. Users are advised to ensure that they are using the latest versions of such documents as appropriate, unless advised otherwise in this Reconfirmation Notice.

Approved for reconfirmation in accordance with Standards Australia procedures for reconfirmation on 27 April 2017.

Approved for reconfirmation in New Zealand on behalf of the Standards Council of New Zealand on 10 August 2017.

The following are represented on Technical Committee PL-006:

Association of Accredited Certification Bodies
Australian Building Codes Board
Energy Networks Australia
Engineers Australia
New Zealand Employers and Manufacturers Association (Central)
Plastics Industry Pipe Association of Australia
Plastics New Zealand
Plumbing Products Industry Group
Water New Zealand
Water Services Association of Australia

NOTES

Australian/New Zealand Standard™

AS/NZS 1462.27

Methods of test for plastics pipes and fittings

Method 27: Determination of toluene extract of carbon black

1 SCOPE

This Standard sets out a method for determining the toluene extract of carbon black.

2 APPARATUS

The following apparatus is required:

- (a) *Extraction thimbles*—double thickness, fat extracted.
- (b) *Condensor*—block tine, spiral pattern.
- (c) *Extraction flask*—with three indentations at base of neck to support an extraction thimble.
- (d) *50 mL shallow weighing dish*—of borosilicate glass
- (e) *Drying oven*—capable of maintaining a temperature of $115 \pm 5^\circ\text{C}$.
- (f) *Desiccator*
- (g) *Weighing device*—to an accuracy of ± 0.001 grams

3 REAGENT

Toluene, sulfur free, which shall be of a recognized analytical reagent quality.

4 PROCEDURE

The procedure shall be as follows:

- (a) Weigh between 5g and 8g of palletized carbon black or 2g to 5g of compressed fluffy carbon black and place in a paper extraction thimble.
- (b) Measure 50 mL to 60 mL of toluene into the extraction flask.
- (c) Assemble the flask, condenser and thimble and extract for $22 +1, -0$ h, at a rate so adjusted that the thimble remains 75% full of liquid at all times during the extraction.
- (d) Transfer the extract solution into a previously cleaned, dried, and weighed, 50 mL shallow glass weighing dish. Filter if necessary, rinse the extraction flask with toluene and add the rinse solution to the weighing dish.
- (e) Evaporate the total solution on a hotplate to a volume of 5 mL to 10 mL and then place in a drying oven at $115 \pm 5^\circ\text{C}$ until dry.
- (f) Cool in a desiccator to room temperature and weigh.