



**Transport**  
Roads & Maritime  
Services

# Test method T1504

## Inorganic filler content of polypropylene pipe

NOVEMBER 2012



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## Revision Summary

Ed/Rev Number	Clause Number	Description of Revision	Authorisation	Date
		Reformatted and Revision Summary Added	D.Dash	June 2001
Ed 2/ Rev 0	All	Reformatted RMS template	J Friedrich	November 2012

Note that Roads and Maritime Services is hereafter referred to as 'RMS'.

The most recent revision to Test method T1504 (other than minor editorial changes) are indicated by a vertical line in the margin as shown here.

# Test method T1504

## Inorganic filler content of polypropylene pipe

### 1. Scope

This test method describes the procedure for determining inorganic filler content of polypropylene pipe.

### 2. Apparatus

- (a) Crucible, platinum or porcelain approximately 30 ml capacity
- (b) Electric Muffle Furnace capable of maintaining a temperature of  $520 \pm 30^\circ\text{C}$
- (c) Balance accurate and readable to  $\pm 0.5\text{mg}$  within the operating range
- (d) Desiccator

### 3. Preparation

A minimum of two specimens each of approximately 1.0g mass shall be tested for each sample.

### 4. Procedure

- (a) Heat a crucible from between  $500$  to  $600^\circ\text{C}$  for ten minutes or more. Cool to room temperature in a desiccator and weigh to the nearest  $0.5\text{mg}$ .
- (b) Place the specimen in the crucible and weigh to the nearest  $0.5\text{mg}$ .
- (c) Place the crucible in the Muffle Furnace and heat to  $300^\circ\text{C}$  and maintain at  $300^\circ\text{C}$  for 20 minutes. Heat to  $520 \pm 30^\circ\text{C}$  and maintain at this temperature for 45 minutes.
- (d) Cool the crucible to room temperature in a desiccator and weigh to the nearest  $0.5\text{mg}$ .
- (e) Retain the residue and determine its composition by the procedure described in test Method T225.

### 5. Calculations

Calculate the filler content of the specimen as follows:

$$\text{Filler Content, percent by mass} = \frac{M_3 - M_1}{M_2 - M_1}$$

Where:

- $M_1$  = mass of crucible
- $M_2$  = Mass of crucible and specimen.
- $M_3$  = Mass of crucible and ignited specimen.

### 6. Reporting

- (a) Report the filler content as a percent by mass to the nearest 0.1 per cent
- (b) Report the mineralogical identification of the filler