

# ASTM D5630 (Procedure B)

Milestone Application Note for Ashing – UltraFAST - Officials



## Summary

This procedure covers the determination of the inorganic content of thermoplastic samples according to ASTM D5630 (Procedure B) method.

## Instrumentation

**Milestone PYRO** microwave system

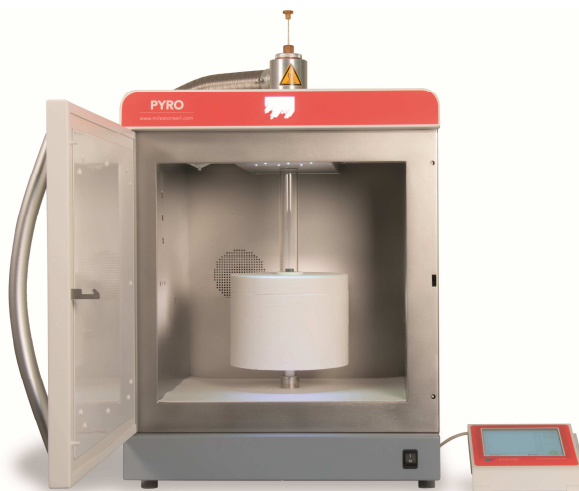
**HighThroughput** muffle furnace

Crucibles (ceramic, quartz, metal)

Analytical balance ( $\pm 0,0001$ g)

Disseccator

Spatula



## Sample amount

|                           |   |
|---------------------------|---|
| Sample weight             | 2-6 g (according to the expected ash content) |
| N° of crucibles (max)     | 5   |
| Total sample amount (max) | 30 g  |

## Microwave program

| Step | Time      | #T1    | Power  | Vent. |
|------|-----------|--------|--------|-------|
| 1    | 00:10:00  | #800°C | 1800 W | *     |
| 2    | #00:20:00 | #800°C | 1800 W | *     |

## Procedure

1. Place a clean crucible on the balance plate, tare it and weigh the sample.
2. Place the crucible into the preheated furnace.
3. Remove the crucible from the furnace and cool it in disseccator.
4. Place the crucible on the balance plate and take the weigh.
5. Calculate the ash residue.

# The ashing time and temperature must be set in accordance to what provided by the official method for each thermoplastic type.

## Notes

The crucible before use must be at constant weight.  
**All modifications to the present method must be agreed with Milestone Application Specialist.**

## General precautions

Always use hand, eye and body protection when operating with the microwave system.

Subject to change without notice.  
For additional information please contact  
[application@milestonesrl.com](mailto:application@milestonesrl.com)

