

General ashing method for Plastics

Milestone Application Note for Ashing – UltraFAST - Plastics



Summary

This method represents a guideline for the ashing of Plastic samples with the Milestone PYRO microwave muffle furnace.

This procedure may need to be optimized to match your specific analytical goals.

Instrumentation

Milestone PYRO microwave system

UltraFAST muffle furnace

Crucibles (quartz, ceramic, metal, glass fibre)

Analytical balance ($\pm 0,0001\text{g}$)

Dissector

Spatula

Sample amount

| | |
|---------------|---|
| Sample weight | 2-6 g (according to the expected ash content) |
|---------------|---|

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 dissector.
4. Place the crucible on the balance plate and take the weigh.
5. Calculate the ash residue.

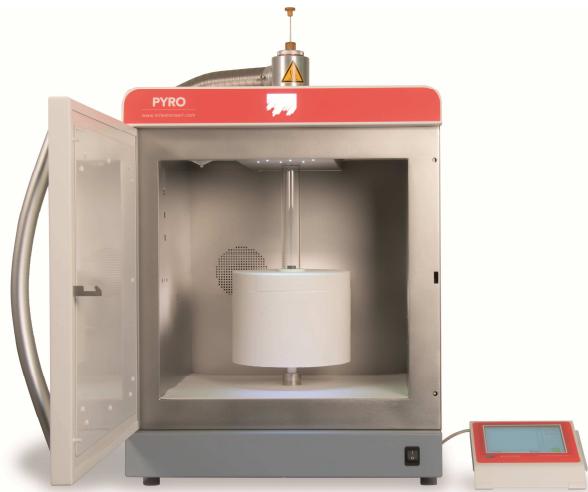
Notes

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.



Microwave program

| Step | Time | T1 | Power | Vent. |
|------|----------|-------|--------|-------|
| 1 | 00:10:00 | 800°C | 1800 W | * |
| 2 | 00:30:00 | 800°C | 1800 W | * |

Subject to change without notice.
For additional information please contact
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