PE Plastic

DIGESTION OF PE PLASTIC CRM JSM P703-1 USING COLDBLOCK™ DIGESTION TECHNOLOGY
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Introduction
This application note will focus on the digestion of JSM P703-1 polyethylene plastic using ColdBlock™ Digestion CB12L Technology.

Method
Triplicate samples of JSM P703-1 were digested using the following method:

- 0.5g sample was weighed and placed into a ColdBlock™ Digestion vessel.
- 15mL H2SO4 was added (3:1 HN3O3:HCl)
- Sample was digested at 100% power for 10 minutes.
- ~5mL H2O2 was added until clear + 5mL HNO3
- Samples was digested again 100% power for 5 minutes
- Chiller temperature was set to -5°C.
- Sample was allowed to cool then was normalized to 50mL using 2% HNO3.

Instrument
ColdBlock™ Digestion CB12L Technology.

General
This procedure is specific for the sample digested and may need modification for different samples to achieve the desired result.