

ISO 14853:2005-02 (E)

Plastics - Determination of the ultimate anaerobic biodegradation of plastic materials in an aqueous system - Method by measurement of biogas production

Contents		Page
Foreword		iv
Introduction		v
1	Scope	1
2	Normative references	1
3	Terms and definitions	2
4	Principle	3
5	Reagents and materials	3
6	Apparatus	6
7	Procedure	6
8	Calculation and expression of results	10
9	Validity of results	12
10	Test report	13
Annex A (informative)	Example of apparatus for determining the amount of biogas produced by measuring the increase in gas pressure	14
Annex B (informative)	Example of apparatus for determining volumetrically the amount of biogas produced	15
Annex C (informative)	Example of a biodegradation curve	17
Annex D (informative)	Examples of data sheets for anaerobic biodegradability tests	18
Annex E (informative)	Table of water vapour pressures at various temperatures	21
Annex F (informative)	Calculation of theoretical carbon dioxide (ThCO ₂) and theoretical methane (ThCH ₄) production	22
Annex G (informative)	Example of determination of recovery rate	23
Annex H (informative)	Example of a workflow scheme	26
Bibliography		28