

DIN EN ISO 14855-2:2018-12 (E)

Determination of the ultimate aerobic biodegradability of plastic materials under controlled composting conditions - Method by analysis of evolved carbon dioxide - Part 2: Gravimetric measurement of carbon dioxide evolved in a laboratory-scale test (ISO 14855- 2:2018)

Contents

Page

European foreword	3
Foreword	4
Introduction	5
1 Scope	6
2 Normative references	6
3 Terms and definitions	6
4 Principle	8
5 Reagents	8
6 Apparatus	9
7 Procedure	10
7.1 Preparation of the inoculum	10
7.2 Preparation of the sea sand	10
7.3 Preparation of test material and reference material	10
7.4 Starting up the test	11
7.5 Measurement of the evolved carbon dioxide	12
7.6 Incubation period	12
7.7 Termination of the test	13
8 Calculation	13
8.1 Theoretical amount of carbon dioxide evolved by test material	13
8.2 Percentage biodegradation	13
9 Expression and interpretation of results	14
10 Validity of results	14
11 Test report	14
Annex A (informative) Basic principle of the test	16
Annex B (informative) Example of an apparatus using an electrically heated composting vessel	18
Annex C (informative) Derivation of the formula used to calculate the degree of biodegradation from the amount of carbon dioxide evolved	20
Bibliography	21