

ISO 19679:2016-08 (E)

Plastics - Determination of aerobic biodegradation of non-floating plastic materials in a seawater/sediment interface - Method by analysis of evolved carbon dioxide

Contents		Page
Foreword		iv
Introduction		v
1	Scope	1
2	Normative references	1
3	Terms and definitions	1
4	Principle	2
5	Test environment	2
6	Reagents	2
7	Apparatus	3
8	Procedure	3
8.1	Test material	3
8.2	Reference material	4
8.3	Preparation of the sediment	4
8.4	Test setup	4
8.5	Pre-conditioning phase	4
8.6	Start of the test	5
8.7	Carbon dioxide measurement	5
8.8	End of the test	6
9	Calculation and expression of results	6
9.1	Calculation	6
9.1.1	Amount of CO ₂ produced	6
9.1.2	Percentage of biodegradation	8
9.2	Visual inspection	8
9.3	Expression and interpretation of results	8
10	Validity of results	9
11	Test report	9
Annex A (informative) Example of respirometric system based on CO ₂ measurement		10
Bibliography		11