DIN EN ISO 19679:2018-02 (E)

Plastics - Determination of aerobic biodegra dation of non-floating plastic materials in a seawater/sediment interface - Method by analysis of evolved carbon dioxide (ISO 19679:2016)

Contents

Page

European foreword ... **3**

Foreword ... **4**

Introduction ... **5**

1 Scope ... **6**

2 Normative references ... **6**

3 Terms and definitions ... **6**

4 Principle ... **7**

5 Test environment ... **7**

6 Reagents ... **7**

7 Apparatus ... **8**

8 Procedure ... **8**
8.1 Test material ... 8
8.2 Reference material ... 9
8.3 Preparation of the sediment ... 9
8.4 Test setup ... 9
8.5 Pre-conditioning phase ... 9
8.6 Start of the test ... 10
8.7 Carbon dioxide measurement ... 10
8.8 End of the test ... 11

9 Calculation and expression of results ... **11**
9.1 Calculation ... 11
9.1.1 Amount of CO_2 produced ... 11
9.1.2 Percentage of biodegradation ... 13
9.2 Visual inspection ... 13
9.3 Expression and interpretation of results ... 13

10 Validity of results ... **14**

11 Test report ... **14**

Annex A (informative) **Example of respirometric system based on CO_2 measurement** ... **15**

Bibliography ... **16**