

DIN EN ISO 19679:2020-11 (E)

Plastics - Determination of aerobic biodegradation of non-floating plastic materials in a seawater/sediment interface - Method by analysis of evolved carbon dioxide (ISO 19679:2020)

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 CO₂ measurement		16
Bibliography		17