

DIN EN ISO 15512:2019-09 (E)

Plastics - Determination of water content (ISO 15512:2019)

Contents		Page
7	Method C -- Manometric method	21
7.1	Principle	21
7.2	Reagents	21
7.3	Apparatus	21
7.4	Preparation of test sample	22
7.5	Procedure	22
7.5.1	Equipment	22
7.5.2	Outgassing	23
7.5.3	Calibration	23
7.5.4	Determination	25
7.6	Expression of results	26
7.7	Precision	26
8	Method D -- Water detection by using a diphosphorus pentoxide cell	26
8.1	Principle	26
8.2	Reagents	27
8.3	Apparatus	27
8.4	Preparation of test sample	28
8.5	Procedure	29
8.5.1	Preparation of apparatus	29
8.5.2	Rinsing the system	29
8.5.3	Tare measurement	29
8.5.4	Cell factor	29
8.5.5	Equipment check	29
8.5.6	Determination	30
8.6	Expression of results	30
8.7	Precision	31
9	Method E -- Determination of water content by calcium hydride method	31
9.1	Principle	31
9.2	Reagents	32
9.3	Apparatus	32
9.4	Preparation of test sample	33
9.5	Procedure	33
9.5.1	Equipment check	33
9.5.2	Calibration	34
9.5.3	Determination	34
9.5.4	Expression of results	35
9.6	Precision	35
10	Test report	35
Annex A (informative) Alternative sample preparation methods and titration methods		36
A.1	General	36
A.2	Titration in solution	36
A.3	Continuous titration in suspension	36
A.4	Discontinuous titration in suspension	36
A.5	External extraction of water	36
Annex B (informative) Selection of the optimum heating temperature and heating time for the water content determination		37

B.1	Procedure for optimum temperature setting	37
B.2	Interpretation of results	37
B.3	Optimum heating time setting	38
	Annex C (normative) Determination of the water content of a water standard	39
	Bibliography	40