

DIN EN ISO 1183-1:2025-09 (E)

Plastics - Methods for determining the density of non-cellular plastics - Part 1: Immersion method, liquid pycnometer method and titration method (ISO 1183-1:2025)

Contents		Page
Foreword		iv
1	Scope	1
2	Normative references	1
3	Terms, definitions and symbols	1
	3.1 Terms and definitions.....	1
	3.2 Symbols.....	2
4	Conditioning and test atmosphere	2
5	Methods	3
	5.1 Method A — Immersion method.....	3
	5.1.1 Apparatus.....	3
	5.1.2 Immersion liquid.....	4
	5.1.3 Specimens.....	4
	5.1.4 Procedure.....	4
	5.2 Method B — Liquid pycnometer method.....	7
	5.2.1 Apparatus.....	7
	5.2.2 Immersion liquid.....	7
	5.2.3 Specimens.....	7
	5.2.4 Procedure.....	7
	5.3 Method C — Titration method.....	8
	5.3.1 Apparatus.....	8
	5.3.2 Immersion liquids.....	8
	5.3.3 Specimens.....	8
	5.3.4 Procedure.....	9
6	Precision	9
7	Test report	9
Annex A (informative) Liquid systems suitable for use in Method C		11
Annex B (normative) Determination of air density		12
Annex C (informative) Determination of specimen volume		14
Annex D (informative) Derivation of formulae		16
Annex E (informative) Precision statement		18
Bibliography		20