

DIN EN ISO 1133-2:2012-03 (E)

Plastics - Determination of the melt mass-flow rate (MFR) and melt volume-flow rate (MVR) of thermoplastics - Part 2: Method for materials sensitive to time-temperature history and/or moisture (ISO 1133-2:2011)

Contents		Page
Foreword		3
Introduction		4
1	Scope	5
2	Normative references	6
3	Terms and definitions	6
4	Principle	6
5	Apparatus	6
5.1	Extrusion plastometer	6
5.2	Accessory equipment	7
6	Test sample	8
6.1	Sample form	8
6.2	Sample pre-treatment and storage	8
7	Temperature verification, cleaning and maintenance of the apparatus	9
7.1	Verification of the temperature-control system	9
7.2	Cleaning the apparatus	9
7.3	Vertical alignment of the instrument	9
8	Procedural set-up	9
8.1	General	9
8.2	Selection of temperature and load	10
8.3	Cleaning	10
8.4	Selection of sample mass and charging the cylinder	10
9	Procedure	11
9.1	Selection of temperature and load	11
9.2	Minimum piston displacement distance	11
9.3	Timer device	11
9.4	Preparation for the test	11
9.5	Measurement	11
9.6	Expression of results	12
10	Flow rate ratio (FRR)	12
11	Precision	12
12	Test report	13
Annex A (informative) Verification of temperature in the cylinder		14
Annex B (informative) Repeated MVR determinations on different materials carried out in line with this part of ISO 1133		18
Bibliography		20