

ISO 899-2:2024-10 (E)

Plastics - Determination of creep behaviour - Part 2: Flexural creep by three-point loading

Contents		Page
	Foreword	iv
1	Scope	1
2	Normative references	1
3	Terms and definitions	1
4	Apparatus	3
5	Test specimens	4
	5.1 Shape and dimensions.....	4
	5.2 Preferred specimen type.....	4
	5.3 Other test specimens.....	5
6	Procedure	5
	6.1 General.....	5
	6.2 Conditioning and test atmosphere.....	5
	6.3 Measurement of test-specimen dimensions and distance between supports.....	5
	6.4 Mounting the test specimens.....	6
	6.5 Selection of stress value.....	6
	6.6 Loading procedure.....	6
	6.6.1 Preloading.....	6
	6.6.2 Loading.....	6
	6.7 Deflection-measurement schedule.....	6
	6.8 Time measurement.....	7
	6.9 Temperature and humidity control.....	7
	6.10 Measurement of recovery rate (optional).....	7
7	Expression of results	7
	7.1 Method of calculation.....	7
	7.1.1 Flexural-creep modulus.....	7
	7.1.2 Flexural-creep compliance.....	7
	7.1.3 Flexural stress.....	8
	7.1.4 Flexural-creep strain.....	8
	7.1.5 Time to rupture.....	8
	7.1.6 Creep-strength limit.....	8
	7.2 Presentation of results.....	9
	7.2.1 Creep curves.....	9
	7.2.2 Creep-modulus/time curves.....	9
	7.2.3 Isochronous stress-strain curves.....	10
	7.2.4 Three-dimensional representation.....	10
	7.2.5 Creep-to-rupture curves.....	10
	7.3 Precision.....	11
8	Test report	11
	Annex A (informative) Physical-ageing effects on the creep of polymers	12
	Bibliography	16