

# DIN EN ISO 899-2:2015-06 (E)

## Plastics - Determination of creep behaviour - Part 2: Flexural creep by three-point loading (ISO 899-2:20 03 + Amd.1:2015) (includes Amendment A1:2015)

---

<b>Contents</b>		<b>Page</b>
<b>1</b>	<b>Scope .....</b>	<b>5</b>
<b>2</b>	<b>Normative references .....</b>	<b>5</b>
<b>3</b>	<b>Terms and definitions .....</b>	<b>6</b>
<b>4</b>	<b>Apparatus .....</b>	<b>7</b>
<b>5</b>	<b>Test specimens .....</b>	<b>8</b>
<b>6</b>	<b>Procedure .....</b>	<b>8</b>
6.1	Conditioning and test atmosphere .....	8
6.2	Measurement of test-specimen dimensions and distance between supports .....	8
6.3	Mounting the test specimens .....	8
6.4	Selection of stress value .....	9
6.5	Loading procedure .....	9
6.5.1	Preloading .....	9
6.5.2	Loading .....	9
6.6	Deflection-measurement schedule .....	9
6.7	Time measurement .....	9
6.8	Temperature and humidity control .....	9
6.9	Measurement of recovery rate (optional) .....	9
<b>7</b>	<b>Expression of results .....</b>	<b>10</b>
7.1	Method of calculation .....	10
7.1.1	Flexural-creep modulus .....	10
7.1.2	Flexural stress .....	10
7.1.3	Flexural-creep strain .....	10
7.2	Presentation of results .....	11
7.2.1	Creep curves .....	11
7.2.2	Creep-modulus/time curves .....	11
7.2.3	Isochronous stress-strain curves .....	12
7.2.4	Three-dimensional representation .....	12
7.2.5	Creep-to-rupture curves .....	12
7.3	Precision .....	13
<b>8</b>	<b>Test report .....</b>	<b>13</b>
<b>Annex A (informative) Physical-ageing effects on the creep of polymers .....</b>		<b>14</b>
A.1	General .....	14
A.2	Creep at elevated temperatures .....	14
<b>Annex ZA (normative) Normative references to international publications with their relevant European publications .....</b>		<b>18</b>
<b>Bibliography .....</b>		<b>19</b>