

# DIN EN ISO 899-2:2025-01 (E)

## Plastics - Determination of creep behaviour - Part 2: Flexural creep by three-point loading (ISO 899-2:2024)

---

<b>Contents</b>	<b>Page</b>
European foreword .....	3
Foreword .....	4
<b>1 Scope</b> .....	<b>5</b>
<b>2 Normative references</b> .....	<b>5</b>
<b>3 Terms and definitions</b> .....	<b>5</b>
<b>4 Apparatus</b> .....	<b>7</b>
<b>5 Test specimens</b> .....	<b>8</b>
5.1 Shape and dimensions .....	8
5.2 Preferred specimen type .....	8
5.3 Other test specimens .....	9
<b>6 Procedure</b> .....	<b>9</b>
6.1 General .....	9
6.2 Conditioning and test atmosphere .....	9
6.3 Measurement of test-specimen dimensions and distance between supports .....	9
6.4 Mounting the test specimens .....	10
6.5 Selection of stress value .....	10
6.6 Loading procedure .....	10
6.6.1 Preloading .....	10
6.6.2 Loading .....	10
6.7 Deflection-measurement schedule .....	10
6.8 Time measurement .....	11
6.9 Temperature and humidity control .....	11
6.10 Measurement of recovery rate (optional) .....	11
<b>7 Expression of results</b> .....	<b>11</b>
7.1 Method of calculation .....	11
7.1.1 Flexural-creep modulus .....	11
7.1.2 Flexural-creep compliance .....	11
7.1.3 Flexural stress .....	12
7.1.4 Flexural-creep strain .....	12
7.1.5 Time to rupture .....	12
7.1.6 Creep-strength limit .....	12
7.2 Presentation of results .....	13
7.2.1 Creep curves .....	13
7.2.2 Creep-modulus/time curves .....	13
7.2.3 Isochronous stress-strain curves .....	14
7.2.4 Three-dimensional representation .....	14
7.2.5 Creep-to-rupture curves .....	14
7.3 Precision .....	15
<b>8 Test report</b> .....	<b>15</b>
<b>Annex A (informative) Physical-ageing effects on the creep of polymers</b> .....	<b>16</b>
<b>Bibliography</b> .....	<b>20</b>