

# ISO 10471:2018 (E)

## Glass-reinforced thermosetting plastics (GRP) pipes — Determination of the long-term ultimate bending strain and the long-term ultimate relative ring deflection under wet conditions

---

### Contents

	Foreword
1	Scope
2	Normative references
3	Terms and definitions
4	Principle
5	Apparatus
5.1	Compressive loading machine
5.2	Force application surfaces
5.2.1	General arrangement
5.2.2	Plates
5.2.3	Beam bars
5.3	Water container
5.4	Measuring devices
6	Test piece
7	Number of test pieces
8	Determination of the dimensions of the test piece
8.1	Length
8.2	Wall thickness
8.3	Mean diameter
9	Conditioning
10	Procedure
11	Calculation
11.1	Extrapolation of the strain data to obtain the x-year value, $\epsilon_x$ , wet
11.2	Calculation of the long-term ultimate relative ring deflection under wet conditions, $y_u$ , wet, $x/dm$
12	Test report
Annex A	(informative) Equal increments of $\lg$ (time in h)

Page count: 10