

ISO 23930:2023-01 (E)

Fibre-reinforced plastic composites - Full-section compressive test for pultruded profiles

| Contents | | Page |
|-----------------------|---|-------------|
| Foreword | | iv |
| Introduction | | v |
| 1 | Scope | 1 |
| 2 | Normative references | 1 |
| 3 | Terms and definitions | 1 |
| 4 | Principle | 2 |
| 5 | Apparatus | 3 |
| 5.1 | Test machine | 3 |
| 5.2 | Compression platens | 3 |
| 5.3 | Strain indicator | 3 |
| 6 | Specimens | 4 |
| 6.1 | Geometry | 4 |
| 6.2 | Preparation of specimens | 4 |
| 6.3 | Number of test specimens | 4 |
| 6.4 | Sampling of test specimens | 4 |
| 6.5 | Conditioning atmosphere | 4 |
| 7 | Test procedure | 5 |
| 7.1 | Test atmosphere | 5 |
| 7.2 | Measurement of initial dimensions of test specimen | 5 |
| 7.3 | Test speed | 5 |
| 8 | Calculation and expression results | 5 |
| 8.1 | General | 5 |
| 8.2 | Full-section compressive strength | 6 |
| 8.3 | Strain | 6 |
| 8.4 | Full-section compressive modulus | 6 |
| 8.4.1 | General | 6 |
| 8.4.2 | Chord slope | 6 |
| 8.4.3 | Regression slope | 6 |
| 8.5 | Failure mode | 7 |
| 9 | Test report | 7 |
| Annex A (informative) | Calculation method of slenderness ratio and width-thickness ratio | 9 |