# ISO 6259-3 Tensile Fixture

## Screw-Clamp Tensile Fixture for Polyolefin Pipe Specimens

Built to ISO 6259-3 — Thermoplastics pipes — Determination of tensile properties — Part 3: Polyolefin pipes



### OVERVIEW

Pair of screw-actuated tensile fixtures for dumbbell specimens cut from polyolefin pipe walls. Twin clamping plates close on the specimen ends via a knurled screw, while an engraved centering scale and open slot keep curved pipe-wall test pieces aligned on the load axis through yield and the long extension to break.

### KEY FEATURES

- Twin clamping plates close symmetrically by knurled hand screw
- Engraved centering scale aligns specimens on the load axis
- Open slot accommodates curved specimens cut from pipe walls
- Long-travel design suits high-elongation polyolefins
- Supplied with adapters to suit your load frame (clevis or threaded)

### TECHNICAL SPECIFICATIONS

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| **Test method** | Tensile properties of polyolefin pipe specimens |
| **Test type / loading** | Tension; screw-clamped specimen ends |
| **Specimens** | Dumbbells machined or die-cut from pipe walls |
| **Load capacity** | 10 kN typical; higher capacities on request |
| **Fixture material** | Corrosion-protected steel |
| **Gripping surfaces** | Twin clamping plates with serrated faces |
| **Machine connection** | Pin spigot with lock nut, to suit customer frame |
| **Compatible frames** | Electromechanical universal test machines |

### APPLICATIONS

- PE, PE-X, PP and PB pipe
- Gas and water distribution pipe
- Pipe extrusion quality control
- Elongation-at-break qualification testing

### ABOUT THE STANDARD

ISO 6259-3 specifies the tensile test for polyolefin pipes, including polyethylene, cross-linked polyethylene, polypropylene and polybutene. Dumbbell test pieces are machined or die-cut from the pipe wall and pulled at a speed depending on wall thickness; stress at yield and elongation at break are reported.

**Ordering & customization:** Specify pipe diameter and wall thickness, specimen type, required capacity and test machine connection when ordering. Supplied as a pair.

Specifications are typical and may vary by configuration; confirm at time of quote. Users should refer to the current edition of the standard for test procedures. Part ref. UGC-ISO6259-3-TF