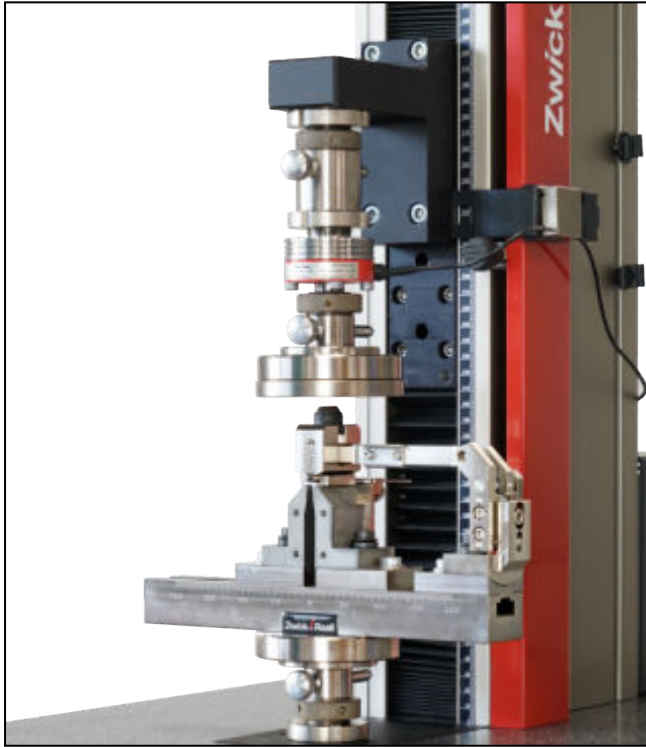


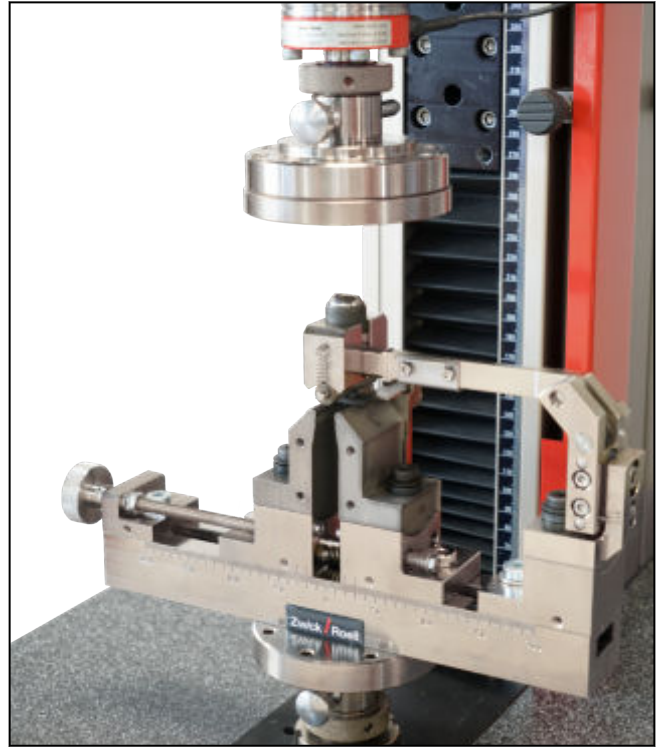
Product Information

Fixture for determination of interlaminar shear strength

CTA: 165955 165956



Fixture for determination of interlaminar shear strength



Fixture for determination of interlaminar shear strength

Applications

Determination of interlaminar shear strength (ILSS) as per ASTM D2344 M, EN 2563, ISO 14130, EN 2377

Function description

The device is a 3-point flexure test kit for determining interlaminar shear strength (ILSS).

ILSS tests are a typical quality control method. They are suitable for comparing materials.

In view of the small span it is particularly important for the die to be aligned exactly with the upper anvils. This is ensured by means of the die arm. The arm can be fixed for installation of the specimen. In addition, a temperature sensor can be attached to the die arm in close proximity to the specimen for tests in temperature chambers.

At 10 mm, the anvil/thickness ratio is very short. As a consequence, high shear forces and relatively low bending moments arise in the specimen.

The method provides only apparent shear properties, as stress peaks occur close to the upper anvil.

Advantages and features

- Precise centering of upper anvil to die
- Easy upper anvil adjustment
- Temperature sensor can be clamped in proximity to specimen
- Loads up to 20 kN possible
- Quick upper anvil and die changes
- Optionally available lead-screw adjustment enables fast, precise adjustment of upper anvils in the event of varying laminate thicknesses.

Product Information

Fixture for determination of interlaminar shear strength

Technical data

Type Item No.	ILSS fixture 1064569	ILSS fixture with lead screw adjuster 1064568
ILSS fixture to	ASTM D2344 M, EN 2563. EN ISO 14130, EN 2377	ASTM D2344 M, EN 2563. EN ISO 14130, EN 2377
Test load F_{max}	20	20 kN
Ambient temperature	-80 ... +250	-80 ... +250 °C
Connection, lower	Connector TK 40 mm Base crosshead (ProLine, All- roundLine, zwickiLine)	TK 40 mm connector Base crosshead (ProLine, All- roundLine, zwickiLine)
Scope of delivery	Flexure table, ILSS flexure support Support R1.5, R2, R3 Loading nose R3, R5 Distance gauges 10 mm R3, 15 mm R3, and 10 mm R2	Lead screw adjuster Flexure table, ILSS flexure support Support R1.5, R2, R3 Loading nose R3, R5 Distance gauges 10 mm R3, 15 mm R3, and 10 mm R2

Accessories required

- Compression platen (Ø 90 mm or 136 mm)

Optional accessories

Description	Item number
Spacing gauge adjustable range 8 to 20 mm Optionally available lead-screw adjustment enables fast, precise adjustment of upper anvils in the event of varying laminate thicknesses.	077096
Centering stop (2 x required)	1007986