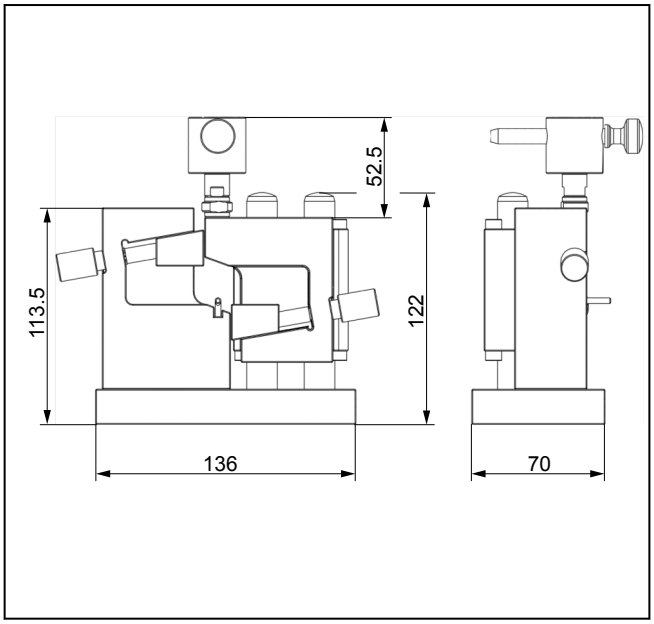
Product Information

V-notched beam (Iosipescu) shear test device

CTA: 176491 163361

V-notched beam (Iosipescu) - shear test device



Shear test device dimensions

Applications

Measuring shear properties of fiber-reinforced composites to ASTM D5379

The range of use is designed to cover the following laminate forms:

- unidirectional laminates with 0° or 90° fiber direction
- unidirectional laminates with an equal number of plies in 0° and 90° fiber direction
- fabric laminates with 0° or 90° warp direction
- short-fiber-reinforced plastics with randomly distributed fibers

The shear test device is guided in the axial direction. It is placed on a compression platen or the crosshead of the testing system.

A specimen notched on both sides is inserted in the shear test device. A zone of torque-free shear load emerges between the notches when a compression load is applied. The fibers must lie parallel or transverse in relation to the load direction. The shear strain is measured via two strain gages that are applied at a 45° angle to the shear plane.

The measurement yields shear behavior, 0.2% shear stress, maximum shear stress, and the secant shear modulus.

Advantages and features

- Easy insertion of the specimen thanks to anti-twist guides
- Reliable setting of the specimen position

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Technical data

Item No.	1063470	
Test load, max. Fmax	9	kN
Weight, approx.	5	kg
Ambient temperature	-70 ... +250	°C
Connection, upper	Connector for connection hole Ø 20 mm included	
Connection, lower	Placed on compression platen	

Accessories required

- 1 compression platen (min. diameter 136 mm)

All data at ambient temperature.

We reserve the right to make technical changes in the course of ongoing development.