

## Product Information

### Device for $G_{IC}$ tests on long-fiber-reinforced composites

CTA: 61318 133025



Fixture for  $G_{IC}$  tests on long-fiber-reinforced composites

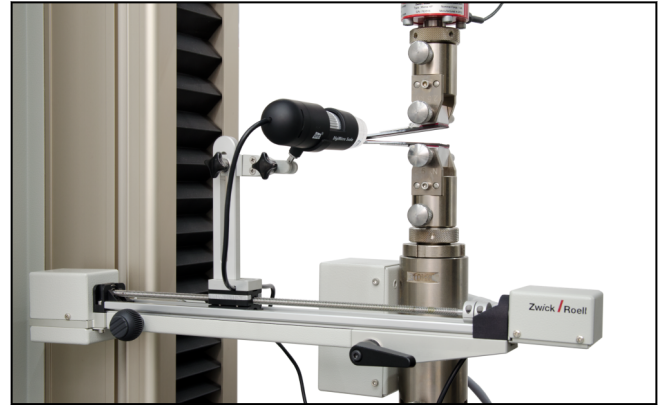
#### Applications

These  $G_{IC}$  specimen-holders and loading blocks are used for measuring the energy release rates  $G_{IC}$  of long-fiber-reinforced composites in a DCB (Double Cantilever Beam) test arrangement. They are standardized according to the following standards:

- ISO 15024
- prEN 6033
- ASTM D 5528
- AITM 1-0005
- AITM 1-0053
- BSS 7273.

#### Function description

During test preparation the loading blocks are glued to the specimen. They are then hooked in the specimen holders via the  $\varnothing$  8 mm connection hole.



Fixture for  $G_{IC}$  tests with video recording option

Tensile force is applied via the loading blocks, which generates a crack opening.

#### Advantages and features

- Easy specimen change
- The fixture without the video recording option can be used over a wide temperature range from  $-80^{\circ}\text{C}$  to  $+250^{\circ}\text{C}$ .

Video recording option:

- Visual crack tracking with video recording option.
- Traceable measurement results thanks to subsequent, precise evaluation of the test sequence in video.
- The video camera is moved on movable carriages throughout the entire test along the crack propagation.

## Product Information

Device for G<sub>I</sub>C tests on long-fiber-reinforced composites

### Technical data

Item no.	1001540	
Test load F <sub>max</sub>	2.5	kN
Upper connection	Ø 20	mm
Lower connection	Ø 20	mm
Ambient temperature	-80 to 250	°C
Weight, approx.	0.21	kg
Scope of delivery	1 pair of specimen holders incl. 1 pair of loading blocks	

### Accessories required

Description	Item number
10 pair of loading blocks for G <sub>I</sub> C specimen, F <sub>max</sub> 2.5 kN, mounting hole Ø 8 mm, specimen width 25.4 mm, block height 15 mm, block width 15 mm	<b>1001542</b>

### Optional accessories

Description	Item number
For visual recording of the slow crack growth for display in the video in testXpert III - Video resolution 160 x 120 to 600 x 1200, 2 mega pixels - Max. camera travel 235 mm - installation height 127.5 mm, width 452 mm, depth 185 mm - Used at room temperature - INC module included	<b>1007538</b>