

Product Information

Mixed mode flexure test kit

CTA: 133021 44813



Mixed mode flexure test kit with option Video Recording

Applications

Measurement of energy release rate under mixed Mode I and Mode II loading as per ASTM D6671

• Specimen material:

unidirectional fiber-reinforced composite laminates

Function description

The flexure test kit is used to measure the energy release rate of unidirectional fiber-reinforced composite laminates

Crack opening (Mode I) is generated by applying tensile force via hinges. In-plane shear (Mode II) is generated by flexural loading.



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The crack opening to shear ratio is adjusted by moving the lever arm force application point. It ranges from 100% Mode II loading to a significant Mode I superimposition.

Advantages and features

- Variable setting of the Mode I proportion of the load
- Ball-bearing-mounted anvils for prevention of friction

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Technical data

Item No.	062152	
Standards	ASTM D6671	
Test load, max. (Fmax)	1	kN
Specimen size:		
length	120 to 185	mm
width	20 to 25	mm
Span adjustment range, approx.	84 to 103.5	mm
Load application point adjustment range, approx.	90	mm
Anvil and upper anvil radius (R)	4.75	mm
Gripping areas, hinges	0.8 to 2	mm
Weight	8	kg
Ambient temperature	-70 to +120	°C
Upper connection	mounting stud, Ø 8 mm	
Lower connection	supported on compression platen	

Accessories required

- 1 compression platen (min. diameter 136 mm)