



BSI Standards Publication

**Aerospace series — Carbon
fibre reinforced plastics —
Test method — Determination
of interlaminar fracture
toughness energy — Mode II —
GIIC**

National foreword

This British Standard is the UK implementation of EN 6034:2015.

Users' attention is drawn to subclause 7.1, which requires that the initial crack in the test specimen be introduced in a defined Mode I procedure (outlined in EN 6033 – *Aerospace series – Carbon fibre reinforced plastics – Test method – Determination of interlaminar fracture toughness energy – Mode I – GIC*), in order to achieve reproducible test results.

A crack produced in Mode I is a result of peel forces perpendicular to the crack plane; a crack produced in Mode II is a result of shear forces at the crack tip introduced by a flexural test (specified in EN 6034). However, the possibility of failure outlined in EN 6033 rarely occurs. The UK committee notes that in practice test results have been achieved by initiating the crack in Mode II, rather than using tested specimens from EN 6033.

The UK participation in its preparation was entrusted to Technical Committee ACE/65, Non-metallic materials for aerospace purposes.

A list of organizations represented on this committee can be obtained on request to its secretary.

This publication does not purport to include all the necessary provisions of a contract. Users are responsible for its correct application.

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