BS EN 6034:2015

BSI Standards Publication

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

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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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Published by BSI Standards Limited 2015

ISBN 978 0 580 82986 4

ICS 49.025.40

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This British Standard was published under the authority of the Standards Policy and Strategy Committee on 30 November 2015.

Amendments/corrigenda issued since publication

Date	Text affected

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EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

EN 6034

November 2015

ICS 49.025.40

English Version

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

Série aérospatiale - Matières plastiques renforcées de fibres de carbone - Méthode d'essai - Détermination de l'énergie de ténacité en rupture interlaminaire - Mode II - GIIC

Luft- und Raumfahrt - Kohlenstofffaserverstärkte Kunststoffe - Prüfverfahren - Bestimmung der interlaminaren Energiefreisetzungsrate - Mode II - GIIC

This European Standard was approved by CEN on 10 August 2013.

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CEN-CENELEC Management Centre: Avenue Marnix 17, B-1000 Brussels

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European foreword

This document (EN 6034:2015) has been prepared by the Aerospace and Defence Industries Association of Europe - Standardization (ASD-STAN).

After enquiries and votes carried out in accordance with the rules of this Association, this Standard has received the approval of the National Associations and the Official Services of the member countries of ASD, prior to its presentation to CEN.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by May 2016, and conflicting national standards shall be withdrawn at the latest by May 2016.

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