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NSAI Standards

Irish Standard
I.S. EN 6036:2015

Aerospace series - Fibre reinforced plastics - Test method - Determination of notched, unnotched and filled hole compression strength

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NSAI	T +353 1 807 3800	Sales:
1 Swift Square,	F +353 1 807 3838	T +353 1 857 6730
Northwood, Santry	E standards@nsai.ie	F +353 1 857 6729
Dublin 9	W NSAI.ie	W standards.ie

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National Foreword

I.S. EN 6036:2015 is the adopted Irish version of the European Document EN 6036:2015, Aerospace series - Fibre reinforced plastics - Test method - Determination of notched, unnotched and filled hole compression strength

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EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

EN 6036

November 2015

ICS 49.025.40

English Version

Aerospace series - Fibre reinforced plastics - Test method - Determination of notched, unnotched and filled hole compression strength

Série aérospatiale - Matières plastiques renforcées de fibres - Méthode d'essai - Détermination de la résistance en compression trouée, lisse et trouée habitée

Luft- und Raumfahrt - Faserverstärkte Kunststoffe - Prüfverfahren - Bestimmung der Kerbdruckfestigkeit an gekerbten, ungekerbten und gebolzten Probekörpern

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

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European foreword

This document (EN 6036:2015) 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of an identical text or by endorsement, at the latest by May 2016, and conflicting national standards shall be withdrawn at the latest by May 2016.

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1 Scope

This standard defines a method to be used to determine the compression strength of notched, unnotched and filled hole fibre reinforced plastics.

It is applicable to composite laminates with unidirectional layers or woven fabric reinforcement.

This standard does not give any direction necessary to meet health and safety requirements. It is the responsibility of the user of this standard to consult and establish appropriate health and safety precautions.

2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

EN 2374, *Aerospace series — Glass fibre reinforced mouldings and sandwich composites — Production of test panels*

EN 2489, *Aerospace series — Fibre reinforced plastics — Determination of the action of test fluids*

EN 2565, *Aerospace series — Preparation of carbon fibre reinforced resin panels for test purposes* 1)

EN 2743, *Aerospace series — Fibre reinforced plastics — Standard procedures for conditioning prior to testing unaged materials*

EN 2823, *Aerospace series — Fibre reinforced plastics — Test method for the determination of the effect of exposure to humid atmosphere on physical and mechanical characteristics* 1)

3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

3.1
notched tensile strength
maximum compression load experienced by the notched test specimen divided by the initial cross sectional area within the gauge length

3.2
unnotched tensile strength
maximum compression load experienced by the unnotched test specimen divided by the initial cross sectional area within the gauge length

1) Published as ASD-STAN Prestandard at the date of publication of this standard. http://www.asd-stan.org/

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