



NSAI
Standards

Irish Standard
I.S. EN 16245-1:2013

Fibre-reinforced plastic composites - Declaration of raw material characteristics - Part 1: General requirements

I.S. EN 16245-1:2013

Incorporating amendments/corrigenda/National Annexes issued since publication:

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Fibre-reinforced plastic composites - Declaration of raw material characteristics - Part 1: General requirements

Composites plastiques renforcés de fibres - Déclaration des caractéristiques des matières premières - Partie 1: Exigences générales

Faserverstärkte Verbundwerkstoffe - Angabe von Werkstoffeigenschaften - Teil 1: Allgemeine Anforderungen

This European Standard was approved by CEN on 1 March 2013.

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Foreword

This document (EN 16245-1:2013) has been prepared by Technical Committee CEN/TC 249 “Plastics”, the secretariat of which is held by NBN.

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of an identical text or by endorsement, at the latest by October 2013, and conflicting national standards shall be withdrawn at the latest by October 2013.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN [and/or CENELEC] shall not be held responsible for identifying any or all such patent rights.

EN 16245 consists of the following parts, under the general title *Fibre-reinforced plastic composites — Declaration of raw material characteristics*:

- *Part 1: General requirements*
- *Part 2: Specific requirements for resin, curing systems, additives and modifiers*
- *Part 3: Specific requirements for fibre*
- *Part 4: Specific requirements for fabrics*
- *Part 5: Specific requirements for core materials*

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1 Scope

This European Standard specifies the minimum general information to be declared for materials to be used for manufacturing fibre-reinforced plastic composites products.

This document includes requirements for the Certificate of Analysis (CoA). The purpose of the CoA is to verify that material properties and quality conform to the declared values.

This part of the standard is applicable to resins, curing systems, additives and modifiers, fibres, fabrics and core materials. The current version of the standard includes the following:

- the thermoset resins polyesters and vinyl esters;
- glass and carbon fibres;
- knitted/stitched fabrics;
- foam core and balsa core.

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 16245-2, *Fibre-reinforced plastic composites — Declaration of raw material characteristics — Part 2: Specific requirements for resin, curing systems, additives and modifiers*

EN 16245-3, *Fibre-reinforced plastic composites — Declaration of raw material characteristics — Part 3: Specific requirements for fibre*

EN 16245-4, *Fibre-reinforced plastic composites — Declaration of raw material characteristics — Part 4: Specific requirements for fabrics*

EN 16245-5, *Fibre-reinforced plastic composites — Declaration of raw material characteristics — Part 5: Specific requirements for core materials*

ISO 80000-1, *Quantities and units — Part 1: General*

3 Terms and definitions

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

3.1

mean value

sum of the (population or sample) data divided by the number of values used

3.2

guaranteed minimum or maximum value

value guaranteed by the supplier, such as no single sample value is below or above the declared values, respectively

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