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Standards

Irish Standard  
I.S. EN 16245-2:2013

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

## I.S. EN 16245-2:2013

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

Composites plastiques renforcés de fibres - Déclaration des caractéristiques des matières premières - Partie 2: Exigences particulières pour les résines, les systèmes de polymérisation, les additifs et les modificateurs

Faserverstärkte Verbundwerkstoffe - Angabe von Werkstoffeigenschaften - Teil 2: Spezifische Anforderungen an Harz, Aushärtungssysteme, Zusatzstoffe und Modifizierer

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This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the CEN-CENELEC Management Centre has the same status as the official versions.

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## Contents

Page

Foreword.....	3
1 Scope .....	4
2 Normative references .....	4
3 Terms and definitions .....	6
4 Content of a declaration.....	8
5 Specific declaration requirements .....	8
5.1 General.....	8
5.2 Declaration for resin.....	8
5.2.1 Declaration for unsaturated polyester and vinyl ester resin.....	8
5.3 Declaration for curing systems .....	11
5.3.1 Properties of resin initiator .....	11
5.3.2 Properties of resin accelerator/promoter .....	13
5.3.3 Properties of resin inhibitor.....	14
5.4 Declaration for resin additive/modifier.....	15
Annex A (normative) Non-reinforced/clear cast mouldings of unsaturated polyesters and vinyl ester .....	17
A.1 Principle.....	17
A.2 Apparatus .....	17
A.3 Procedure .....	17
A.3.1 Curing system .....	17
A.3.2 Mould preparation filling.....	17
A.3.3 Curing .....	18
A.3.4 Demould.....	18
A.3.5 Post curing .....	18
A.4 Test specimens .....	19
A.5 Quality assurance and control .....	19
Bibliography .....	20

## Foreword

This document (EN 16245-2:2013) 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 November 2013, and conflicting national standards shall be withdrawn at the latest by November 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* (the present document)
- *Part 3: Specific requirements for fibre*
- *Part 4: Specific requirements for fabrics*
- *Part 5: Specific requirements for core materials*

According to the CEN-CENELEC Internal Regulations, the national standards organisations of the following countries are bound to implement this European Standard: Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, Former Yugoslav Republic of Macedonia, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

## 1 Scope

This European Standard specifies the minimum information to be declared for resins, curing systems, additives and modifiers to be used for the manufacturing of composites products.

These specific declaration requirements are in addition to the general requirements given in EN 16245-1.

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

## 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 16245-1:2013, Fibre-reinforced plastic composites — *Declaration of raw material characteristics — Part 1: General requirements*

EN 59, *Glass reinforced plastics — Measurement of hardness by means of a Barcol impressor*

EN ISO 62, *Plastics — Determination of water absorption (ISO 62)*

EN ISO 75-2:2013, *Plastics — Determination of temperature of deflection under load — Part 2: Plastics and ebonite (ISO/FDIS 75-2:2012)*

EN ISO 178:2010, *Plastics — Determination of flexural properties (ISO 178:2010)*

EN ISO 291, *Plastics — Standard atmospheres for conditioning and testing (ISO 291)*

EN ISO 527 (all parts), *Plastics — Determination of tensile properties (ISO 527)*

EN ISO 584, *Plastics — Unsaturated polyester resins — Determination of reactivity at 80 °C (conventional method) (ISO 584)*

EN ISO 787-5, *General methods of test for pigments and extenders — Part 5: Determination of oil absorption value (ISO 787-5)*

EN ISO 1183 (all parts), *Plastics — Methods for determining the density of non-cellular plastics (ISO 1183)*

EN ISO 2114, *Plastics (polyester resins) and paints and varnishes (binders) — Determination of partial acid value and total acid value (ISO 2114)*

EN ISO 2555, *Plastics — Resins in the liquid state or as emulsions or dispersions — Determination of apparent viscosity by the Brookfield Test method (ISO 2555)*

EN ISO 2592, *Determination of flash and fire points — Cleveland open cup method (ISO 2592)*

EN ISO 2719, *Determination of flash point — Pensky-Martens closed cup method (ISO 2719)*

EN ISO 2811 (all parts), *Paints and varnishes — Determination of density (ISO 2811)*

EN ISO 2884 (all parts), *Paints and varnishes — Determination of viscosity using rotary viscometers (ISO 2884)*

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