

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

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## EESTI STANDARDI EESSÕNA

## NATIONAL FOREWORD

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Standard on jõustunud sellekohase teate avaldamisega EVS Teatajas.	This standard has been endorsed with a notification published in the official bulletin of the Estonian Centre for Standardisation.
Euroopa standardimisorganisatsioonid on teinud Euroopa standardi rahvuslikele liikmetele kättesaadavaks 17.04.2013.	Date of Availability of the European standard is 17.04.2013.
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ICS 83.120

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English Version

## Fibre-reinforced plastic composites - Declaration of raw material characteristics - Part 4: Specific requirements for fabrics

Composites plastiques renforcés de fibres - Déclaration des caractéristiques des matières premières - Partie 4: Exigences particulières pour les tissus

Faserverstärkte Verbundwerkstoffe - Angabe von Werkstoffeigenschaften - Teil 4: Spezifische Anforderungen an Gewebe

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

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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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## Foreword

This document (EN 16245-4:2013) 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of an identical text or by endorsement, at the latest by October 2013, and conflicting national standards shall be withdrawn at the latest by October 2013.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*

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 part of this European Standard specifies the minimum information to be declared for fabrics to be used for the manufacturing of composites products, also impregnated products, but not to the composite products or impregnated products themselves.

These specific declaration requirements are in addition to the general requirements given in Part 1 of this standard (i.e. 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 conform to the declared values.

This part of the standard is applicable to uni-axial and multi-axial fabric material.

## 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 13473-1, *Reinforcement — Specifications for multi-axial multi-ply fabrics — Part 1: Designation*

EN 13473-2, *Reinforcement — Specifications for multi-axial multi-ply fabrics — Part 2: Methods of test and general requirements*

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

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

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

EN ISO 1889, *Reinforcement yarns — Determination of linear density (ISO 1889)*

EN ISO 3344, *Reinforcement products — Determination of moisture content (ISO 3344)*

EN ISO 4921, *Knitting — Basic concepts — Vocabulary (ISO 4921)*

ISO 1887, *Textile glass — Determination of combustible-matter content*

ISO 3374, *Reinforcement products — Mats and fabrics — Determination of mass per unit area*

ISO 5025, *Reinforcement products — Woven fabrics — Determination of width and length*