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IRISH STANDARD

I.S. EN 13473-3:2001

ICS 59.100.99
83.120

REINFORCEMENT - SPECIFICATION

PART 3: SPECIFIC REQUIREMENTS

National Standards
Authority of Ireland
Dublin 9
Ireland

Tel: (01) 807 3800
Tel (01) 807 3838

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EUROPEAN STANDARD
NORME EUROPÉENNE
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English version

Reinforcement - Specifications for multi-axial multi-ply fabrics - Part 3: Specific requirements

Renfort - Spécifications pour les tissus multi-axiaux multicouches - Partie 3: Exigences spécifiques

Verstärkungen - Spezifikation für Multiaxialgelege - Teil 3: Besondere Anforderungen

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Management Centre: rue de Stassart, 36 B-1050 Brussels

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Foreword

This European Standard has been prepared by Technical Committee CEN/TC 249 "Plastics", the secretariat of which is held by IBN.

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of an identical text or by endorsement, at the latest by December 2001, and conflicting national standards shall be withdrawn at the latest by December 2001.

This standard is one part of EN 13473 "Reinforcement – Specifications for multi-axial multi-ply fabrics" which is constructed as follows :

— *Part 1 : Designation*

— *Part 2 : Methods of test and general requirements*

— *Part 3 : Specific requirements*

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and the United Kingdom.

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1 Scope

This Part 3 of EN 13473 is a specification of multi-axial multi-ply fabrics made from reinforcement yarns, tows, rovings, fibre fleeces, films, foams or other materials which are intended to provide reinforcement in composite materials and which is bound to a multi-ply construction. This specification defines those parameters which are required for a particular application or processing method.

The parameter specifications do not define absolute or nominal values for any parameter. The values for specified parameters are defined by the application. This specification defines the test methods which shall be used to determine the values and tolerances for each specified parameter to be controlled by the textile manufacturer.

The parameters which shall be defined in the technical specification of multi-axial multi-ply fabrics are defined in clause 4 of this Part.

2 Normative references

This European Standard incorporates by dated or undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this European Standard only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies (including amendments).

EN 13473-1, *Reinforcement – Specifications for multi-axial multi-ply fabrics – Teil 1 : Designation*

EN 13473-2:2001, *Reinforcement – Specifications for multi-axial multi-ply fabrics – Teil 2 : Methods of test and general requirements*

ISO 472, *Plastics – Vocabulary*

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

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

3 Terms and definitions

For the purposes of this European Standard, the terms and definitions given in EN 13473-1, EN 13473-2 and ISO 472 apply.

4 Parameter specifications

4.1 General

For each reinforcing multi-axial multi-ply fabric the nominal values of the parameters shall be defined in accordance to the following division into three groups: The parameters and tolerances in group 1 shall be designated and controlled by the textile manufacturer. The parameters in group 2 shall be designated but not controlled by the textile manufacturer. The parameters of group 3 neither have to be designated nor controlled by the textile manufacturer, but can be optionally agreed.

4.2 Parameters to be designated and controlled (group 1)

Table 1 describes the test methods of the parameters which need to be designated and controlled. In addition the tolerances for the single parameter are defined. Parameters for special applications may differ from the tolerance values and have to be agreed.

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