



**NSAI**  
Standards

Irish Standard  
I.S. EN 204:2016

# Classification of thermoplastic wood adhesives for non-structural applications

**I.S. EN 204:2016**

*Incorporating amendments/corrigenda/National Annexes issued since publication:*

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I.S. xxx: Irish Standard — national specification based on the consensus of an expert panel and subject to public consultation.

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## National Foreword

I.S. EN 204:2016 is the adopted Irish version of the European Document EN 204:2016, Classification of thermoplastic wood adhesives for non-structural applications

This document does not purport to include all the necessary provisions of a contract. Users are responsible for its correct application.

**Compliance with this document does not of itself confer immunity from legal obligations.**

*In line with international standards practice the decimal point is shown as a comma (,) throughout this document.*

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**EUROPEAN STANDARD**

**EN 204**

**NORME EUROPÉENNE**

**EUROPÄISCHE NORM**

August 2016

ICS 83.180

Supersedes EN 204:2001

English Version

## Classification of thermoplastic wood adhesives for non-structural applications

Classification des colles thermoplastiques pour bois à usages non structuraux

Klassifizierung von thermoplastischen Holzklebstoffen für nichttragende Anwendungen

This European Standard was approved by CEN on 8 July 2016.

CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration. Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the CEN-CENELEC Management Centre or to any CEN member.

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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## **European foreword**

This document (EN 204:2016) has been prepared by Technical Committee CEN/TC 193 “Adhesives”, the secretariat of which is held by AENOR.

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 February 2017, and conflicting national standards shall be withdrawn at the latest by February 2017.

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

This document supersedes EN 204:2001.

Compared to EN 204:2001 the following modifications have been made:

- a) references to tests with thick bond lines have been removed;
- b) assessment is based on 20 test pieces;
- c) additional information on conditioning sequences added in Table 2.

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.

**EN 204:2016 (E)**

## **Introduction**

European Standards giving a common classification with respect to durability classes for wood adhesives will allow considerable improvement in consumer protection in any future product liability system with regard to properties guaranteed by the adhesive manufacturer.



## 1 Scope

This European Standard classifies thermoplastic resin based wood adhesives for non-structural applications into durability classes D1 to D4 based on the dry and wet strengths of bond-lines measured under specified conditions after various conditioning treatments.

For special applications, further tests that do not fall within the scope of this European standard can be applicable.

The adhesives specified in this European standard are suitable for the bonding of furniture and interior structures, panelling, doors, windows, stairs etc. made of wood or derived timber products.

This European Standard does not specify the temperature resistance of bond-lines.

## 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 205:2016, *Adhesives — Wood adhesives for non-structural applications — Determination of tensile shear strength of lap joints*

EN 923, *Adhesives - Terms and definitions*

## 3 Terms and definitions

For the purposes of this document, the terms and definitions given in EN 923 and the following apply.

### 3.1

#### **thermoplastic resin**

#### **thermoplast**

polymer or copolymer capable of being softened by heating and hardened by cooling

[SOURCE: EN 923:2015, modified — NOTE 1 to entry has been removed]

### 3.2

#### **thermoplastic wood adhesive**

adhesive whose main constituent is a thermoplastic resin and which has been formulated for bonding wood

## 4 Classification

An adhesive shall be classified in accordance with Table 1, which gives examples of climatic conditions and fields of application in which the bonded member is to be used. The classification shall be based on tests on thin bond-lines as defined in EN 205:2016.

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