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Adhesives — Classification of thermoplastic wood adhesives for non-structural applications

Adhésifs — Classification des colles thermoplastiques pour bois à usages non structuraux

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ISO copyright office
Ch. de Blandonnet 8 • CP 401
CH-1214 Vernier, Geneva, Switzerland
Tel. +41 22 749 01 11
Fax +41 22 749 09 47
copyright@iso.org
www.iso.org

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Foreword

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Introduction

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

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Adhesives — Classification of thermoplastic wood adhesives for non-structural applications

1 Scope

This document 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 document can be applicable.

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

This document does not specify the temperature resistance of bond lines.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 19210, *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.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

— IEC Electropedia: available at http://www.electropedia.org/

— ISO Online browsing platform: available at http://www.iso.org/obp

3.1
thermoplastic resin
thermoplast
polymer or copolymer capable of being softened by heating and hardened by cooling

[SOURCE: EN 923:2005+A1:2008, 2.2.8, 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

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