

Testing of welded joints of thermoplastics semi-finished products —

Part 8: Requirements

The European Standard EN 12814-8:2001 has the status of a
British Standard

ICS 25.160.40

National foreword

This British Standard is the official English language version of EN 12814-8:2001, including Corrigendum September 2003.

The UK participation in its preparation was entrusted to Technical Committee PRI/80, Welding of plastics, which has the responsibility to:

- aid enquirers to understand the text;
- present to the responsible international/European committee any enquiries on the interpretation, or proposals for change, and keep the UK interests informed;
- monitor related international and European developments and promulgate them in the UK.

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This British Standard, having been prepared under the direction of the Sector Policy and Strategy Committee for Materials and Chemicals, was published under the authority of the Standards Policy and Strategy Committee on 15 November 2001

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Testing of welded joints of thermoplastics semi-finished products - Part 8: Requirements

Essai des assemblages soudés sur produits semi-finis en thermoplastiques - Partie 8: Exigences

Prüfen von Schweißverbindungen aus thermoplastischen Kunststoffen - Teil 8: Anforderungen

This European Standard was approved by CEN on 11 August 2001.

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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of an identical text or by endorsement, at the latest by March 2002, and conflicting national standards shall be withdrawn at the latest by March 2002.

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.

Introduction

This document is not complete but contains all available information known at the time of writing.

1 Scope

This European Standard provides the requirements for the tests made on welded thermoplastics semi-finished products.

The selection of the appropriate test method(s) should be made in accordance with the particular type and application of welded product.

The test results depend on the conditions of manufacture for the test specimen and on the test conditions. They can therefore only be related to the behaviour of the product or can only be used for designing a structure, if the test conditions can be related to the service conditions.

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 12814-1, *Testing of welded joints of thermoplastics semi-finished products – Part 1 : Bend test.*

EN 12814-2, *Testing of welded joints of thermoplastics semi-finished products – Part 2 : Tensile test.*

EN 12814-3, *Testing of welded joints of thermoplastics semi-finished products – Part 3 : Tensile creep test.*

EN 12814-4, *Testing of welded joints of thermoplastics semi-finished products – Part 4 : Peel test.*

EN 12814-5, *Testing of welded joints of thermoplastics semi-finished products – Part 5 : Macroscopic examination.*

EN 12814-6, *Testing of welded joints of thermoplastics semi-finished products – Part 6 : Low temperature tensile test.*

prEN 12814-7, *Testing of welded joints of thermoplastics semi-finished products – Part 7 : Tensile test with waisted test specimens.*

3 Symbols and abbreviations

HT	Heated tool welding
HG	Hot gas welding
EX	Extrusion welding (continuous)