



NSAI
Standards

Irish Standard
I.S. EN 14598-2:2005

Reinforced thermosetting moulding compounds - Specification for Sheet Moulding Compound (SMC) and Bulk Moulding Compound (BMC) - Part 2: Methods of test and general requirements

I.S. EN 14598-2:2005

Incorporating amendments/corrigenda issued since publication:

EN 14598-2:2005/AC:2006

The National Standards Authority of Ireland (NSAI) produces the following categories of formal documents:

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

S.R. xxx: Standard Recommendation - recommendation based on the consensus of an expert panel and subject to public consultation.

SWiFT xxx: A rapidly developed recommendatory document based on the consensus of the participants of an NSAI workshop.

This document replaces:

This document is based on:
EN 14598-2:2005

Published:
27 April, 2005

This document was published under the authority of the NSAI and comes into effect on:
7 July, 2005

ICS number:
83.120

NSAI
1 Swift Square,
Northwood, Santry
Dublin 9

T +353 1 807 3800
F +353 1 807 3838
E standards@nsai.ie
W NSAI.ie

Sales:
T +353 1 857 6730
F +353 1 857 6729
W standards.ie

Údarás um Chaighdeáin Náisiúnta na hÉireann

English version
Version Française
Deutsche Fassung

Reinforced thermosetting moulding compounds - Specification for Sheet
Moulding Compound (SMC) and Bulk Moulding Compound (BMC) - Part 2:
Methods of test and general requirements

Mélanges à mouler thermodurcissables
renforcés - Spécification pour mats
préimprégnés (SMC) et mélanges à mouler
en masse (BMC) - Partie 2 : Méthodes
d'essai et exigences générales

Verstärkte härtbare Formmassen -
Spezifikation für Harzmatten (SMC) und
faserverstärkte Pressmassen (BMC) - Teil
2: Prüfverfahren und allgemeine
Anforderungen

This corrigendum becomes effective on 3 May 2006 for incorporation in the three official language versions of the EN.

Ce corrigendum prendra effet le 3 mai 2006 pour incorporation dans les trois versions linguistiques officielles de la EN.

Die Berichtigung tritt am 3.Mai 2006 zur Einarbeitung in die drei offiziellen Sprachfassungen der EN in Kraft.



EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

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

I.S. EN 14598-2:2005
EN 14598-2:2005/AC:2006 (E/F/D)

English version

Table 3, rows 4.1 and 4.2, column 3, shall be modified as follows:

EN 60695-11-10 (IEC 60695-11-10)

Table 3, rows 4.3 and 4.4, column 3, shall be modified as follows:

EN 60695-11-20 (IEC 60695-11-20)

Version française

Tableau 3, lignes 4.1 et 4.2, colonne 3, doivent être remplacées comme suit:

EN 60695-11-10 (CEI 60695-11-10)

Tableau 3, lignes 4.2 et 4.3, colonne 3, doivent être remplacées comme suit:

EN 60695-11-20 (CEI 60695-11-20)

Tableau 3, lignes 4.1 et 4.2, colonne 7, supprimer "(UL 94)"

Deutsche Fassung

Tabelle 3, Linien 4.1 und 4.2, Spalte 3, ist wie folgt zu ersetzen:

EN 60695-11-10 (IEC 60695-11-10)

Tabelle 3, Linien 4.1 und 4.2, Spalte 3, ist wie folgt zu ersetzen:

EN 60695-11-20 (IEC 60695-11-20)

ICS 83.120

English version

Reinforced thermosetting moulding compounds - Specification
for Sheet Moulding Compound (SMC) and Bulk Moulding
Compound (BMC) - Part 2: Methods of test and general
requirements

Mélanges à mouler thermodurcissables renforcés -
Spécification pour mats préimprégnés (SMC) et mélanges
à mouler en masse (BMC) - Partie 2 : Méthodes d'essai et
exigences générales

Verstärkte härtbare Formmassen - Spezifikation für
Harzmatten (SMC) und faserverstärkte Pressmassen
(BMC) - Teil 2: Prüfverfahren und allgemeine
Anforderungen

This European Standard was approved by CEN on 21 February 2005.

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 Central Secretariat 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 Central Secretariat has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Slovakia, Slovenia, Spain, Sweden, Switzerland and United Kingdom.



EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

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

Contents

	Page
Foreword	3
1 Scope	4
2 Normative references	4
3 Terms and definitions	6
4 Preparation of test specimens	6
4.1 General	6
4.2 Pre-treatment of the material	6
4.3 Injection moulding	6
4.4 Compression moulding	7
5 Conditioning of test specimens	8
6 Determination of properties	8
Bibliography	15

Foreword

This document (EN 14598-2:2005) 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 October 2005, and conflicting national standards shall be withdrawn at the latest by October 2005.

EN 14598 consists of the following parts, under the general title *Reinforced thermosetting moulding compounds – Specification for Sheet Moulding Compound (SMC) and Bulk Moulding Compound (BMC)*

- *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, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Slovakia, Slovenia, Spain, Sweden, Switzerland and United Kingdom.

1 Scope

This part of EN 14598 specifies the methods of preparation of test specimens and the test methods to be used in determining the properties of Sheet Moulding Compound (SMC) and Bulk Moulding Compound (BMC). Requirements for handling test material and for conditioning both of the test material before moulding and of the specimens before testing are found here.

Procedures and conditions for the preparation of test specimens and procedures for measuring properties of the materials from which these specimens are made are given. Properties and test methods which are suitable and necessary to characterize SMCs and BMCs are listed.

The properties have been selected from the general test methods in EN ISO 10350-2, *Plastics - Acquisition and presentation of comparable single-point data – Part 2 Long-fibre-reinforced plastics*. Other test methods in wide use for or of particular significance to these compression and injection moulding materials are also included in this part of EN 14598, as are the designatory properties found in *Part 1: Designation and basis for specifications*.

In order to obtain reproducible and comparable test results, it is necessary to use the methods of preparation and conditioning, test-specimens with the dimensions and the test procedures specified herein. Values determined will not necessarily be identical to those obtained using test-specimens of different dimensions or prepared using different procedures.

2 Normative references

The following referenced documents are indispensable for the application 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.

EN 60112, *Method for determination of the proof and the comparative tracking indices of solid insulating materials (IEC 60112:2003)*

EN 60243-1, *Electric strength of insulating materials – Test methods - Part 1: Tests at power frequencies (IEC 60243-1:1998)*

EN 60296, *Fluids for electrotechnical applications - Unused mineral insulating oils for transformers and switchgears (IEC 60269:2003)*

EN 60695-11-10, *Fire hazard testing – Part 11-10: Test flames – 50 W horizontal and vertical flame test methods (IEC 60695-11-10:1999)*

EN 60695-11-20, *Fire hazard testing – Part 11-20: Test flames – 500 W flame test methods (IEC 60695-11-20:1999)*

EN 60707, *Flammability of solid non-metallic materials when exposed to flame sources – List of test methods (IEC 60707:1999)*

EN ISO 62, *Plastics - Determination of water absorption (ISO 62:1999)*

EN ISO 75-2, *Plastics - Determination of temperature of deflection under load - Part 2: Plastics, ebonite and long-fibre-reinforced composites (ISO 75-2:2004)*

EN ISO 175, *Plastics – Methods of test for the determination of the effects of immersion in liquid chemicals (ISO 175:1999)*

EN ISO 179-1, *Plastics - Determination of Charpy impact properties - Part 1: Non-instrumented impact test (ISO 179-1:2000)*

EN ISO 179-2, *Plastics - Determination of Charpy impact properties – Part 2: Instrumented impact test (ISO 179-2:1997)*

This is a free preview. Purchase the entire publication at the link below:

[Product Page](#)

-
- [Looking for additional Standards? Visit Intertek Inform Infostore](#)
 - [Learn about LexConnect, All Jurisdictions, Standards referenced in Australian legislation](#)
-