Reinforced thermosetting moulding compounds - Specification for Sheet Moulding Compound (SMC) and Bulk Moulding Compound (BMC) - Part 1: Designation

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EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

Käesolev Eesti standard EVS-EN 14598-
1:2005 sisaldab Euroopa standardi EN
14598-1:2005 ingliskeelset teksti.

Käesolev dokument on jõustatud 22.06.2005 ja selle kohta on avaldatud teade Eesti standardiorganisatsiooni ametlikus väljaandes.

Standard on kättesaadav Eesti standardiorganisatsioonist.

This Estonian standard EVS-EN 14598-1:2005 consists of the English text of the European standard EN 14598-1:2005.

This document is endorsed on 22.06.2005 with the notification being published in the official publication of the Estonian national standardisation organisation.

The standard is available from Estonian standardisation organisation.

Käsitlusala:

This part of EN 14598 establishes a data block system for the designation of Sheet Moulding Compounds (SMC) and Bulk Moulding Compounds (BMC)

Scope:

This part of EN 14598 establishes a data block system for the designation of Sheet Moulding Compounds (SMC) and Bulk Moulding Compounds (BMC)

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Võtmesõnad:

EUROPEAN STANDARD NORME EUROPÉENNE EUROPÄISCHE NORM

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English version

Reinforced thermosetting moulding compounds - Specification for Sheet Moulding Compound (SMC) and Bulk Moulding Compound (BMC) - Part 1: Designation

Mélanges à mouler thermodurcissables renforcés -Spécification pour mats préimprégnés (SMC) et mélanges à mouler en masse (BMC) - Partie 1 : Désignation Verstärkte härtbare Formmassen - Spezifikation für Harzmatten (SMC) und faserverstärkte Pressmassen (BMC) - Teil 1: Bezeichnung

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

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Foreword

This document (EN 14598-1:2005) 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

This document includes a Bibliography.

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.

Introduction

This document establishes a data-block system for the designation of Sheet Moulding Compound (SMC) and Bulk Moulding Compound (BMC) using a format and coding system established by the International Standards Organisation (ISO) which is common to most fibre reinforced thermoset and thermoplastic moulding materials. The system is intended to be applied only to materials ready for commercial use.

The designation system is based on the premise that thermosets and long fibre reinforced thermo-plastics can be divided into generic families using basic polymers, values of selected designatory properties and additional qualitative information in order to describe a particular material as precisely as desired.

The system is intended for the designation of a single material (or a small group of similar materials) within a generic family.

It is not intended to specify by this system the chemical composition or the volumetric recipe of the compound but to designate the material for identification purposes. It is the responsibility of the producer of the compound material to provide the appropriate designation.

The data-block system is also the basis for specification given in Parts 2 and 3 of this document.

To ensure that the meanings of codes remain unambiguous and to avoid conflicts within the system codes and abbreviations have to be coordinated with ISO/TC 61/SC 1.

1 Scope

This part of EN 14598 establishes a data block system for the designation of Sheet Moulding Compounds (SMC) and Bulk Moulding Compounds (BMC)

The types of SMC and BMC are differentiated from each other by a classification system based on information about basic polymer parameters, fillers/reinforcement content and type, intended method of processing and/or manufacturing, specific characteristics and designatory properties.

This document is applicable to all SMC and BMC ready for normal use in the form of sheets and bulks.

It is not intended to imply that materials having the same designation give necessarily the same performance. This part of EN 14598 does not provide engineering data, performance data or data on processing conditions which may be required to specify a material for a particular application and/or method of processing.

Whenever general requirement data in the part 3 of this document need to be indicated, this data block system is also the basis for it.

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 14598-2, Reinforced thermosetting moulding compounds – Specification for Sheet Moulding compound (SMC) and Bulk Moulding Compound (BMC) – Part 2: Methods of test and general requirements.

EN 14598-3, Reinforced thermosetting moulding compounds – Specification for Sheet Moulding Compound (SMC) and Bulk Moulding Compound (BMC) - Part 3 : Specific requirements.

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 178, Plastics - Determination of flexural properties (ISO 178:2001)

EN ISO 472:2001, Plastics - Vocabulary (ISO 472:1999)

EN ISO 1043-1:2001, Plastics – Symbols and abbreviated terms - Part 1: Basic polymers and their special characteristics (ISO 1043-1:2001)

EN ISO 1043-2, Plastics – Symbols and abbreviated terms - Part 2: Fillers and reinforcing materials (ISO 1043-2:2000)

EN ISO 14125, Fibre reinforced plastic composites – Determination of flexural properties (ISO 14125:1998)