Pigments and extenders - Methods of dispersion and assessment of dispersibility in plastics - Part 1: General introduction

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EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

Käesolev Eesti standard EVS-EN 13900-
1:2003 sisaldab Euroopa standardi EN
13900-1:2003 ingliskeelset teksti.

Käesolev dokument on jõustatud 15.04.2003 ja selle kohta on avaldatud teade Eesti standardiorganisatsiooni ametlikus väljaandes.

Standard on kättesaadav Eesti standardiorganisatsioonist.

This Estonian standard EVS-EN 13900-1:2003 consists of the English text of the European standard EN 13900-1:2003.

This document is endorsed on 15.04.2003 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 this European Standard provides an introduction to the various parts of this European Standard which describe methods for dispersing pigments and extenders in plastics materials in order to determine their dispersion characteristics and colouristic properties

Scope:

This part of this European Standard provides an introduction to the various parts of this European Standard which describe methods for dispersing pigments and extenders in plastics materials in order to determine their dispersion characteristics and colouristic properties

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English version

Pigments and extenders - Methods of dispersion and assessment of dispersibility in plastics - Part 1: General introduction

Pigments et matières de charge - Méthodes de dispersion et évaluation des caractéristiques de dispersibilité dans les plastiques - Partie 1: Introduction générale Pigmente und Füllstoffe - Dispergierverfahren und Beurteilung der Dispergierbarkeit in Kunstoffen - Teil 1: Allgemeine Einleitung

This European Standard was approved by CEN on 12 December 2002.

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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 Management Centre has the same status as the official versions.

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

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

Foreword

This document (EN 13900-1:2003) has been prepared by Technical Committee CEN/TC 298 "Pigments and extenders", the secretariat of which is held by DIN.

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 August 2003, and conflicting national standards shall be withdrawn at the latest by August 2003.

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, Hungary, Iceland, Ireland, Italy, Luxembourg, Malta, Netherlands, Norway, Portugal, Slovak Republic, Spain, Sweden, Switzerland and the United Kingdom. a de la company de la company

1 Scope

This part of this European Standard provides an introduction to the various parts of this European Standard which describe methods for dispersing pigments and extenders in plastics materials in order to determine their dispersion characteristics and colouristic properties.

Methods of assessing dispersion characteristics are described in the subsequent parts of this European Standard.

The various procedures described permit comparison to be made between similar pigments (for example between a test sample and an agreed reference pigment). The results provide an indication of relative dispersibility under practical conditions of use, provided that the test procedure and plastics material selected are appropriate.

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 13900-2, Pigments and extenders - Methods of dispersion and assessment of dispersibility in plastics – Part 2: Determination of colouristic properties and ease of dispersion in plasticized polyvinyl chloride by two-roll milling.

EN 13900-3, Pigments and extenders - Methods of dispersion and assessment of dispersibility in plastics – Part 3: Determination of colouristic properties and ease of dispersion of black and colour pigments in polyethylene by two-roll milling.

prEN 13900-4, Pigments and extenders - Methods of dispersion and assessment of dispersibility in plastics – Part 4: Determination of colouristic properties and ease of dispersion of white pigments in polyethylene by two-roll milling.

3 Terms and definitions

For the purposes of this part of this European Standard the following terms and definitions apply.

3.1

dispersibility

ease and extent to which pigments or extenders can, by wetting, elimination of air and by mechanical disagglomeration, be distributed homogeneously in a plastics material under standardized conditions of processing

NOTE Dispersibility is generally assessed in terms of colour strength development, colouristic properties and frequency and size of agglomerates.

3.2

ease of dispersion (DH)

measure of the rate at which or the degree to which a pigment or extender achieves a given level of dispersion when dispersed in a plastics material

3.3

aggregate

primary particles so joined together that they cannot be broken down during normal pigment/extender dispersing processes