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Road marking materials - Paint, thermoplastic and cold plastic materials - Physical properties

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

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Standard on jõustunud sellekohase teate avaldamisega EVS Teatajas	This standard has been endorsed with a notification published in the official bulletin of the Estonian Centre for Standardisation.
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EUROPEAN STANDARD

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NORME EUROPÉENNE

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English Version

Road marking materials - Paint, thermoplastic and cold plastic materials - Physical properties

Produits de marquage routier - Peintures, enduits à froid et à chaud - Propriétés physiques

Straßenmarkierungsmaterialien - Markierungsfarben, Kaltplastikmassen und Heißplastikmassen - Physikalische Eigenschaften

This European Standard was approved by CEN on 19 July 2020.

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

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Contents	Page
European foreword	5
1 Scope	6
2 Normative references	6
3 Terms and definitions	6
4 Requirements	7
4.1 General	7
4.2 Paint	7
4.3 Thermoplastic	9
4.4 Cold plastic	11
5 Test methods	12
5.1 General	12
5.2 Paint	12
5.3 Thermoplastic	13
5.4 Cold plastic	13
Annex A (normative) Paint and cold plastic – Test method for determining the luminance factor and chromaticity coordinates	15
A.1 Principle and apparatus	15
A.2 Materials	15
A.3 Procedure	15
Annex B (normative) Paint – Test method for determining the hiding power	16
B.1 Principle	16
B.2 Apparatus	16
B.3 Procedure	16
B.4 Expression of results	17
Annex C (normative) Paint and cold plastic – Test method for determining the storage stability	19
C.1 Principle	19
C.2 Apparatus	19
C.3 Procedure	21
C.4 Determination of the degree of suspension and ease of remixing	21
C.5 Rating	21
Annex D (normative) Paint – Test method for determining the bleed resistance	23
D.1 Principle	23
D.2 Apparatus and materials	23
D.3 Preparation of bitumen coated carrier panel	23
D.4 Procedure	23

Annex E (normative) Paint, cold plastic and thermoplastic – Test method for determining the alkali resistance of the materials	25
E.1 Principle.....	25
E.2 Apparatus and reagents	25
E.3 Number of tests	26
E.4 Preparation of test panels	26
E.5 Testing.....	27
E.6 Evaluation of the surface conditions	27
E.7 Precision and repetition	27
Annex F (normative) Thermoplastic – Test method for determining the chromaticity coordinates and luminance factor.....	28
F.1 Principle.....	28
F.2 Apparatus	28
F.3 Procedure	28
Annex G (normative) Thermoplastic – Test method for determining the softening point	29
G.1 Principle.....	29
G.2 Apparatus.....	29
G.3 Samples	29
G.4 Preparation of the ring	29
G.5 Procedure.....	31
G.6 Expression of the result.....	31
Annex H (normative) Thermoplastic – Test method for determining the heat stability.....	32
H.1 Principle.....	32
H.2 Apparatus	32
H.3 Preparation of sample	32
Annex I (normative) Thermoplastic – Test method for determining the cold impact resistance.....	37
I.1 Principle.....	37
I.2 Apparatus and reagents	37
I.3 Procedure	38
Annex J (normative) Thermoplastic – Test method for determining the indentation value	39
J.1 Principle.....	39
J.2 Summary.....	39
J.3 Apparatus	39
J.4 Preparation of the sample	41
J.5 Testing.....	42
J.6 Calculation.....	42

J.7	Interpretation of the results	42
J.8	Reporting	42
	Bibliography.....	43

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European foreword

This document (EN 1871:2020) has been prepared by Technical Committee CEN/TC 226 “Road equipment”, the secretariat of which is held by AFNOR.

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 April 2021, and conflicting national standards shall be withdrawn at the latest by April 2021.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN shall not be held responsible for identifying any or all such patent rights.

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1 Scope

This document covers testing of physical properties of road marking materials by laboratory methods.

The products covered and specified by this document are white and yellow paint, thermoplastic and cold plastic materials, with or without premix glass beads, to be used for permanent and/or temporary road markings on highways and other areas used by vehicular traffic. Other products and colours intended for road markings are not covered in this document.

Not all physical properties listed in this document have to be specified.

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.

EN 1436:2018, *Road marking materials - Road marking performance for road users and test methods*

EN 12802, *Road marking materials - Laboratory methods for identification*

EN 13459, *Road marking materials - Sampling from storage and testing*

EN ISO 787-11, *General methods of test for pigments and extenders - Part 11: Determination of tamped volume and apparent density after tamping (ISO 787-11)*

EN ISO 1514, *Paints and varnishes - Standard panels for testing (ISO 1514)*

EN ISO 2812-1, *Paints and varnishes - Determination of resistance to liquids - Part 1: Immersion in liquids other than water (ISO 2812-1)*

EN ISO 4892-3, *Plastics - Methods of exposure to laboratory light sources - Part 3: Fluorescent UV lamps (ISO 4892-3)*

3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

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

- ISO Online browsing platform: available at <https://www.iso.org/obp>
- IEC Electropedia: available at <http://www.electropedia.org/>

3.1

paint

liquid product which contains binders, pigments, fillers, solvents and additives, which can be supplied in single or multi-component systems and which, when applied, produces a cohesive film by the process of solvent/water evaporation or the process of solvent/water evaporation and a chemical reaction or coalescence process (in the case of water based product)

3.2

thermoplastic

solvent-free marking product which is supplied in block, granular, powder forms or preformed (e.g. as tape), which is heated to a molten state prior to application to road surfaces, and which forms a cohesive film by cooling