



SLOVENSKI STANDARD

SIST HD 624.5 S1:1996

01-maj-1996

Materials used in communication cables - Part 5: Polypropylen insulation compounds

Materials used in communication cables -- Part 5: Polypropylene insulation compounds

Werkstoffe für Kommunikationskabel -- Teil 5: Polypropylen-Isoliermischungen

Matériaux utilisés dans les câbles de communication -- Partie 5: Polypropylène pour enveloppes isolantes

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Ta slovenski standard je istoveten z: **HD 624.5 S1:1995**

SIST HD 624.5 S1:1996
<https://standards.iteh.ai/catalog/standards/sist/a21a600e-c5a9-4039-86ef-348abb780aaf/sist-hd-624-5-s1-1996>

ICS:

33.120.10 Koaksialni kabli. Valovodi Coaxial cables. Waveguides

SIST HD 624.5 S1:1996

en

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HARMONIZATION DOCUMENT
DOCUMENT D'HARMONISATION
HARMONISIERUNGSDOKUMENT

HD 624.5 S1

September 1995

ICS 33.120.10

Descriptors: Polypropylen insulation compounds, communication cables

English version

**Materials used in communication cables
Part 5: Polypropylen insulation compounds**

Matériaux utilisés dans les câbles de
communication
Partie 5: Polypropylène pour enveloppes
isolantes

Werkstoffe für Kommunikationskabel
Teil 5: Polypropylen-Isoliermischungen

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This Harmonization Document was approved by CENELEC on 1995-05-15. CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for implementation of this Harmonization Document on a national level.

Up-to-date lists and bibliographical references concerning such national implementation may be obtained on application to the Central Secretariat or to any CENELEC member.

This Harmonization Document exists in three official versions (English, French, German).

CENELEC members are the national electrotechnical committees of Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.

CENELEC

European Committee for Electrotechnical Standardization
Comité Européen de Normalisation Electrotechnique
Europäisches Komitee für Elektrotechnische Normung

Central Secretariat: rue de Stassart 35, B - 1050 Brussels

Foreword

This Harmonization Document was prepared by the Technical Committee CENELEC TC 46X, Communication cables.

The text of the draft was submitted to the formal vote and was approved by CENELEC as HD 624.5 S1 on 1995-05-15.

The following dates were fixed:

- latest date by which the existence of the HD has to be announced at national level (doa) 1996-01-01
- latest date by which the HD has to be implemented at national level by publication of a harmonized national standard or by endorsement (dop) 1996-07-01
- latest date by which the national standards conflicting with the HD have to be withdrawn (dow) 1996-07-01

For products which have complied with the relevant national standard before 1996-07-01, as shown by the manufacturer or by a certification body, this previous standard may continue to apply for production until 2001-07-01.

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Polypropylene insulation compounds
(Application for unfilled cables)

Characteristics		Test method	Unit	Grades	
				Solid	Cell (including foam-skin)
1	Maximum rated temperature of cable for which the compound can be used		° C	90	70
2	Density *	HD 505.1.3 § 8	g/cm ³	0,895 to 0,915	To be recorded
3	Melt Flow Index*	HD 505.4.1 § 10	g/10 min	To be recorded	To be recorded
4	Mechanical characteristics In state of delivery	HD 505.1.1 § 9.1			
4.1	Tensile strength - median, min.		MPa	15	5
4.2	Elongation at break - median, min.		%	300	125
5	Shrinkage Test conditions - temperature - duration Result to be obtained, max.	HD 505.1.3 § 10	° C h %	130 ± 2 1 5	130 ± 2 1 5
6	Elongation at break after ageing Test conditions - temperature - duration Result to be obtained - median, min.	HD 505.1.2 § 8.1	° C h %	100 ± 2 10 x 24 300	100 ± 2 10 x 24 125
7	Wrapping after ageing Test conditions - temperature - duration Result to be obtained	HD 505.4.2 § 10	° C h	100 ± 2 14 x 24 no crack	100 ± 2 14 x 24 no crack

Characteristics		Test method	Unit	Grades	
				Solid	Cell (including foam-skin)
8	Long Term Stability Test (Note) Test conditions - temperature - duration Result to be obtained	HD 505.4.2 App. A	° C h	100 ± 2 42 x 24 no crack	100 ± 2** 42 x 24 no crack
9	Bending test at low temperature Test conditions - temperature - duration Result to be obtained	HD 505.1.4 § 8.1	° C h	- 30 ± 2 1 no crack	- 30 ± 2 1 no crack

Note : For monitoring both raw materials and cables, OIT test may be performed in accordance with HD 505.4.2 Appendix B with typical minimum value of 15 min.
Alternatively, the test may be carried out prior to extrusion on granules in presence of a piece of copper conductor with typical minimum value of 30 min.
For information only, OIT after pre-conditioning may be recorded.

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* to be given by the supplier on the basic resins (cellular and skin)
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** provisional value - Temperature to be confirmed

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