



SLOVENSKI STANDARD

SIST EN 14687:2005

01-marec-2005

Vlaknene vrvi iz mešanice poliolefinskih vlaken

Mixed polyolefin fibre ropes

Polyolefingemisch-Faserseile

Cordages en fibres de polyoléfines mélangées

Ta slovenski standard je istoveten z: EN 14687:2004

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ICS:

59.080.50 Vrvi

Ropes

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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN 14687

November 2004

ICS 59.080.50

English version

Mixed polyolefin fibre ropes

Cordages en fibres de polyoléfines mélangées

Polyolefingemisch-Faserseile

This European Standard was approved by CEN on 23 September 2004.

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.

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Contents

	Page
Foreword.....	3
1 Scope	4
2 Normative references	4
3 Terms and definitions	4
4 Designation	4
5 Materials	4
6 General requirements.....	5
7 Physical properties.....	6
8 Marking	10

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Foreword

This document (EN 14687:2004) has been prepared by Technical Committee CEN/TC 248 “Textiles and textile products”, the secretariat of which is held by BSI.

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of an identical text or by endorsement, at the latest by May 2005, and conflicting national standards shall be withdrawn at the latest by May 2005.

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.

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EN 14687:2004 (E)**1 Scope**

This document specifies requirements for 3-strand hawser-laid, 4-strand shroud laid, 8-strand braided and 12-strand braided ropes made of mixed polyolefin fibres and gives rules for their designation.

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 ISO 1968:2004, *Fibre ropes and cordage — Vocabulary (ISO 1968:2004)*

prEN ISO 2307, *Fibre ropes — Determination of certain physical and mechanical properties (ISO/DIS 2307:2003)*

prEN ISO 9554:2003, *Fibre ropes — General specifications (ISO/DIS 9554:2003)*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in EN ISO 1968:2004 apply.

4 Designation

Fibre ropes shall be designated by

- the words "fibre rope";
- number of this document;
- construction or type of rope (see clause 6);
- reference number of the rope;
- material from which the rope is made.

EXAMPLE:

Designation of a 3-strand hawser-laid rope, reference number 20 (type A), corresponding to a linear density of 181 ktex made of mixed polyolefin fibre (PO):

Fibre rope EN 14687 - A - 20 – PO

5 Materials

The rope shall be made using bi-component fibres made of a blend during extrusion of polypropylene and of polyethylene with a minimum of 15 % and a maximum of 50 % of polyethylene.

6 General requirements

6.1 Mixed polyolefin fibre ropes shall be made in one of the following constructions:

- type A: 3-strand hawser-laid rope (see Figure 1);
- type B: 4-strand shroud laid rope (see Figure 2);
- type L: 8-strand braided rope (see Figure 3);
- type T: 12-strand braided rope (see Figure 4).



Figure 1 — Shape of a 3-strand hawser-laid rope (type A)



Figure 2 — Shape of an 4-strand shroud-laid rope (type B)



Figure 3 — Shape of an 8-strand braided rope (type L)

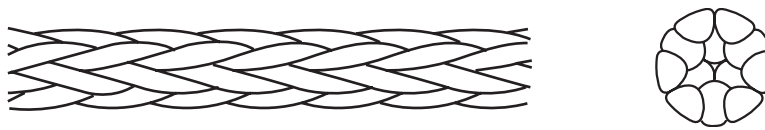


Figure 4 — Shape of a 12-strand braided rope (type T)

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6.2 Construction, manufacture, lay, labelling, packaging, invoicing and delivery lengths shall conform to prEN ISO 9554.

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7 Physical properties

Linear density and minimum breaking force shall conform to the Tables 1, 2 and 3.

Table 1 —Linear density and minimum breaking force of 3-strand hawser-laid mixed polyolefin fibre ropes (type A)

Reference number ^{a)}	Linear density ^{b) c)}		Minimum breaking force ^{d) e) f)} kN
	Nominal ktex	Tolerance	
6	16,3	± 10 %	6,76
8	29,0		11,7
10	45,3	± 8 %	18,0
12	65,2		25,4
14	88,8		34,0
16	116		43,5
18	147	± 5 %	54,5
20	181		66,2
22	219		79,1
24	261		92,8
26	306		107
28	355		123
30	408		140
32	464		157
36	587		194
40	725		234
44	877		277
48	1 040		325
52	1 220		376
56	1 420		429
60	1 630		486
64	1 860		544
68	2 100		609
72	2 350		677
80	2 900		818
88	3 510		985
96	4 170		1 170

^{a)} The reference number corresponds to the approximate diameter in millimetres.

^{b)} The linear density (in kilotex) corresponds to the net mass per length of the rope expressed in grams per metre or in kilograms per thousand metres.

^{c)} The linear density is under reference tension and is measured as specified in prEN ISO 2307.

^{d)} The breaking forces quoted above relate to new dry and wet ropes.

^{e)} Minimum values shall be reduced by 10 % in the case of a rope with eye spliced terminations.

^{f)} A force determined by the test methods as specified in prEN ISO 2307 is not necessarily an accurate indication of the force at which that rope might break in other circumstances and situations. Type and quality of termination rate of force application, prior conditioning and previous force applications to the rope can significantly influence the breaking force. A rope bent around a post, capstan, pulley or sheave may break at a significantly lower force. A knot or other distortion in a rope may significantly reduce the breaking force.