

JIS

JAPANESE INDUSTRIAL STANDARD

Polyethylene ropes

☞ JIS L 2705—1992

Translated and Published

by

Japanese Standards Association

Printed in Japan

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In the event of any doubt arising,
the original Standard in Japanese is to be final authority.



1. Scope

This Japanese Industrial Standard specifies the polyethylene ropes manufactured from polyethylene monofilament yarns (hereafter referred to as the "ropes").

Remarks 1. The corresponding international standard to this Standard is as follows:

ISO 1969 Three-strand polyethylene monofilament ropes

2. The units and numerical values given in { } in this Standard are in accordance with the customary unit system, and are appended for informative reference.

2. Classification

The ropes are classified into two grades, Grade 1 and Grade 2, according to tensile strength and elongation percentage.

3. Quality requirements

3.1 Appearance The ropes shall be finished well without any remarkable stain and friction mark.

3.2 Linear density and mass The linear density and mass of the ropes shall be as specified in Attached Table 1. The tolerances thereon shall be $\pm 5\%$ for 3-strand ropes and $\pm 7\%$ for 8-strand ropes.

The increase of linear density and mass due to dyeing process or resin finishment shall be within 15 % of the linear density and mass specified in Attached Table 1.

3.3 Length A line of the ropes shall have 200 m length, unless otherwise specified. When otherwise specified, it shall have the specified length. The tolerance on minus side is not admitted.

Only when particularly specified, a margin length necessary to the tensile strength test (breaking test) shall be added.

3.4 Tensile strength The ropes of Grades 1 and 2 shall prove that they have the tensile strength over the value given in Attached Table 1, when subjected to the test specified in 6.7.

3.5 Elongation percentage The ropes shall show the elongation percentage less than 35 % incl. for Grade 1 ropes and less than 45 % incl. for Grade 2 ropes, when it is calculated by the formula given in 6.8.

4. Materials and manufacture

4.1 Materials The raw yarns to be used shall be only polyethylene monofilament yarns suitable to rope use.

The remade material shall not be used.

4.2 Manufacture The ropes may be subjected to dyeing process or resin finishment, when particularly designated.

4.3 Plaiting The plaiting shall be made as follows:

- (1) The ropes shall be made to a form of three strands or of eight strands, and the former form shown in Fig. 1 shall be adopted, unless otherwise specified.