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МЕЖДУНАРОДНАЯ ОРГАНИЗАЦИЯ ПО СТАНДАРТИЗАЦИИ

## Conveyor belts — Heat resistance —

### Part 2: Specifications

*Courroies transporteuses — Résistance à la chaleur —*

*Partie 2: Spécifications*

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Reference number  
ISO 4195-2: 1988 (E)

## Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work.

Draft International Standards adopted by the technical committees are circulated to the member bodies for approval before their acceptance as International Standards by the ISO Council. They are approved in accordance with ISO procedures requiring at least 75 % approval by the member bodies voting.

International Standard ISO 4195-2 was prepared by Technical Committee ISO/TC 41, *Pulleys and belts (including veebelts)*.

Users should note that all International Standards undergo revision from time to time and that any reference made herein to any other International Standard implies its latest edition, unless otherwise stated.

# Conveyor belts — Heat resistance —

## Part 2: Specifications

### 1 Scope and field of application

This part of ISO 4195 specifies the permissible variations of hardness, and breaking elongation and strength of conveyor belt covers after exposure to heat as described in ISO 4195-1.

### 2 References

ISO 37, *Rubber, vulcanized — Determination of tensile stress-strain properties*.

ISO 48, *Vulcanized rubbers — Determination of hardness (Hardness between 30 and 85 IRHD)*.

ISO 4195-1, *Conveyor belts — Heat resistance — Part 1: Test method*.

### 3 Principle

Measurement of

- IRHD hardness of covers, according to ISO 48,
- breaking elongation of covers, according to ISO 37,
- breaking strength of covers, according to ISO 37,

before and after exposure to heat under conditions defined in ISO 4195-1.

The temperatures selected for the tests are usually not those corresponding to the temperature of the product to be transported; they are generally lower to take account of

- a) the possibility of conveyor belt cooling;
- b) the fact that contact between the product and the conveyor belt will not equalize the temperature.

### 4 Permissible variations

Characteristics of covers	Belt class		
	1	2	3
Variation			
<b>Hardness</b>			
— variation of the initial value in IRHD units	+ 20	+ 20	± 20
— maximum value	85	85	85
<b>Breaking elongation</b>			
— variation in percentage of the initial value	- 50	- 50	- 55
— minimum value, %	200	200	180
<b>Breaking strength</b>			
— variation in percentage of the initial value	- 25	- 30	- 40
— minimum value, MPa	12	10	5

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