



National Standards Authority of Ireland

IRISH STANDARD

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ICS 53.040.20

**LIGHT CONVEYOR BELTS - TEST METHOD
FOR THE MEASUREMENT OF THE
ELECTROSTATIC FIELD GENERATED BY A
RUNNING LIGHT CONVEYOR BELT**

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English version

**Light conveyor belts - Test method for the measurement of the
electrostatic field generated by a running light conveyor belt**

Courroies transporteuses légères - Méthode d'essai pour le
mesurage du champ électrostatique engendré par une
courroie transporteuse légère en marche

Leichte Fördergurte - Prüfverfahren zur Messung des von
einem laufenden leichten Fördergurt erzeugten
elektrostatischen Feldes

This European Standard was approved by CEN on 8 November 1998.

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.

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Foreword

This European Standard has been prepared by Technical Committee CEN/TC 188 "Conveyor belts", 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of an identical text or by endorsement, at the latest by July 1999, and conflicting national standards shall be withdrawn at the latest by July 1999.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and the United Kingdom.

1 Scope

This European Standard specifies a method of test for the measurement of the electrostatic field generated by a running light conveyor belt as described in EN 873.

This dynamic procedure is required since the antistatic behaviour of light conveyor belts can in many cases not always sufficiently be described by measurement of the electrical resistances described in prEN 1637.

2 Normative references

This European Standard incorporates by dated or undated references, provisions from other publications. These normative references are cited at the appropriate places in the text and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this European Standard only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies.

EN 873	Light conveyor belts - Principal characteristics and applications
prEN 1637	Light conveyor belts - Test methods for the measurement of the electrical resistances
prEN 1723	Light conveyor belts - Determination of the relaxed elastic modulus
ISO 22	Belt drives - Flat transmission belts and corresponding pulleys - Dimensions and tolerances
ISO 471:1995	Rubber - Temperatures, humidities and times for conditioning and testing
ISO 554	Standard atmospheres for conditioning and/or testing - Specifications
ISO 4287-1	Surface roughness - Terminology - Part 1 : Surface and its parameters

3 Principle

The test piece runs under specified conditions and produces an electrostatic field of which the course of its variation with time is recorded.

The test is carried out successively with both sides of the belt in contact with the pulleys.

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