

ICS 83.140.10

English Version

**Plastics - Extruded and/or calendered, non-reinforced film and
sheeting made of plasticized poly(vinyl chloride) (PVC-P) -
Guidance for characterisation and designation**

Plastiques - Film et feuille en poly(chlorure de vinyle)
plastifié (PVC-P) extrudés et/ou calandrés, non renforcés -
Guide pour la caractérisation et la désignation

Kunststoffe - Extrudierte und/oder kalandrierte
nichtverstärkte Folien und Bahnen aus
weichmacherhaltigem Polyvinylchlorid (PVC-P) - Leitfaden
für die Charakterisierung und Bezeichnung

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Foreword

This Technical Specification (CEN/TS 15354:2006) has been prepared by Technical Committee CEN/TC 249 "Plastics", the secretariat of which is held by IBN.

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1 Scope

This Technical Specification gives a guidance for the characterisation and the designation of extruded and/or calendered, non-reinforced film or sheeting made of plasticized poly(vinyl chloride) (PVC-P). It specifies the corresponding test methods for the assessment of the characteristics.

This Technical Specification is applicable to film and sheeting in the range of thickness from 0,05 mm to 1 mm.

2 Normative references

The following referenced documents are indispensable for the application of this Technical Specification. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

EN ISO 176, *Plastics — Determination of loss of plasticizers — Activated carbon method (ISO 176:2005)*

EN ISO 183, *Plastics — Qualitative evaluation of the bleeding of colorants (ISO 183:1976)*

EN ISO 527-1, *Plastics — Determination of tensile properties — Part 1: General principles (ISO 527-1:1993 including Corr 1:1994)*

EN ISO 527-3, *Plastics — Determination of tensile properties — Part 3: Test conditions for films and sheets (ISO 527-3:1995)*

EN ISO 877, *Plastics — Methods of exposure to direct weathering, to weathering using glass-filtered daylight, and to intensified weathering by daylight using Fresnel mirrors (ISO 877:1994)*

EN ISO 1183 (all parts), *Plastics — Method for determining the density and relative density of non-cellular plastics*

EN ISO 3451-5, *Plastics — Determination of ash — Part 5: Poly(vinyl chloride) (ISO 3451-5:2002)*

EN ISO 4892-1, *Plastics — Methods of exposure to laboratory light sources — Part 1: General guidance (ISO 4892-1:1999)*

EN ISO 4892-2, *Plastics — Methods of exposure to laboratory light sources — Part 2: Xenon-arc lamps (ISO 4892-2:2006)*

EN ISO 6383-1, *Plastics — Film and sheeting — Determination of tear resistance — Part 1: Trouser tear method (ISO 6383-1:1983)*

EN ISO 6383-2, *Plastics — Film and sheeting — Determination of tear resistance — Part 2: Elmendorf method (ISO 6383-2:1983)*

EN ISO 11501, *Plastics — Film and sheeting — Determination of dimensional change on heating (ISO 11501:1995)*

EN ISO 11502, *Plastics — Film and sheeting — Determination of blocking resistance (ISO 11502:1995)*

ISO 4582, *Plastics — Determination of changes in colour and variations in properties after exposure to daylight under glass, natural weathering or laboratory light sources*

ISO 4591, *Plastics — Film and sheeting — Determination of average thickness of a sample and average thickness and yield of a roll, by gravimetric techniques (gravimetric thickness)*

ISO 4592, *Plastics — Film and sheeting — Determination of length and width*

ISO 4593, *Plastics — Film and sheeting — Determination of thickness by mechanical scanning*

ISO 4892-4, *Plastics — Methods of exposure to laboratory light sources — Part 4: Open-flame carbon-arc lamps*

ISO 7724-1, *Paints and varnishes — Colorimetry — Part 1: Principles*

ISO 7724-2, *Paints and varnishes — Colorimetry — Part 2: Colour measurement*

ISO 7724-3, *Paints and varnishes — Colorimetry — Part 3: Calculation of colour differences*

ISO 8570, *Plastics — Film and sheeting — Determination of cold-crack temperature*

3 Terms and definitions

For the purposes of this Technical Specification, the following terms and definitions apply.

3.1

film or sheeting made of plasticized poly(vinyl chloride) (PVC-P)

film or sheeting, manufactured from a compound made of a polymer and/or a copolymer of poly(vinyl chloride) in which are incorporated plasticizer(s), filler(s) and additives, as stabilizer(s), lubricant(s), flame retardant(s), colorant(s) etc.

NOTE Commonly, the term, film, is used if the thickness is less than 0,1 mm, and the term, sheeting, if the thickness is equal to or greater than 0,1 mm.

3.2

thickness of a film or sheeting

dimension measured perpendicularly, in specified conditions, between the two main surfaces of a film or a sheeting

3.3

nominal thickness of a film or sheeting

thickness of a film or sheeting, as declared by the manufacturer or specified in an agreement between the manufacturer and the purchaser

3.4

width of a film or a sheeting

smaller dimension of a film or sheeting, corresponding to the width of the unwound roll, measured on a flat surface in the transverse direction

3.5

nominal width of a film or a sheeting

width of a film or sheeting, as declared by the manufacturer or specified in an agreement between the manufacturer and the purchaser

3.6

roll length

largest dimension of the film or the sheeting corresponding to the length of the unwound roll

3.7

nominal roll length

roll length of a film or sheeting, as declared by the manufacturer or specified in an agreement between the manufacturer and the purchaser