

# Commissione Tecnica Rotocalco

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Title:

Graphic technology — Process control for the production of half-tone colour separations, proofs and production prints

Part 10: **Packaging Rotogravure printing**



## Scope:

This part of ISO 12647 document specifies the requirements for the exchange of data and information necessary for the definition of the aims for process and spot colour gravure printing of packaging materials. It is based on the use of colour characterization data to define the colourimetric printing aims and includes appropriate assignment of responsibility for and recommended tolerances on critical parameters of the Rotogravure printing process.

This part of ISO 12647 document is directly applicable to:

- gravure packaging printing.
- half-tone and continuous tone proofing processes that predict the colourimetric results of gravure packaging printing.

It is not directly applicable to:

- Metalized Inks and transparent inks printed directly on metalized substrate.
- All Gravure application different from Packaging



1 Scope

2 Normative references

3 Terms and definitions

4 Requirements

4.1 General

4.2 Material input requirements

■ 4.2.1 General

■ 4.2.2 Definition of restriction related to final applications

Primary packaging

Ink set colours restriction

post process distortion

**NEW**



- 4.2.3 Proof requirements
  - digital proof
  - analog proof
- 4.2.4 Digital data files
  - Tiff 1 bit
- 4.2.5 Film/printing form requirements
  - Colour separations
  - Film
  - Cylinder
  - Cylinder verification before printing run



- 4.3 Printing aims
  - 4.3.1 General
  - 4.3.2 Halftoning parameters
  - 4.3.3 Influence of print substrates
    - Surface or lamination printing
    - Transparency / base coat
    - Absorbing or not absorbing substrate
  - 4.3.4 Ink set colours
  - 4.3.5 Reproducibility of ink colour set
  - 4.3.6 Ink set gloss
  - 4.3.7 Tolerance for image positioning
  - 4.3.8 Reproducibility of printing
    - Tone value Increase (TVI-CTV)
- 5 Reporting

NEW

NEW



## Annex

- Annex A - Information exchange
- Annex B - Communication of spot colour data
- Annex C - Preliminary fingerprint
  - definition of proper test cylinder element **NEW**
  - Reporting of process parameters
- Annex E Influence of press sets on quality results **NEW**

