

CONVERSION

Printing:

- gravure
- flexographic
- litho sheet fed with UV-curing and oxidative drying inks prior to which film should be stored at 20-25°C, 60-70% RH for a minimum of 48 hours
- screen printing and letterpress

Coating:

- suitable for additional "Top-coating"

APPLICATION

- self-adhesive labels
- in-mould labels for PP-injection-moulding

Certified according to

DIN EN ISO 9001:2000

Maintenance of industrial health and safety standards:

Treofan OPP films do not present any significant danger to health and safety in the workplace, provided they are used for the intended purpose in accordance with conventional practices and that health and safety regulations are observed. Relevant guidelines can be found in our safety information.

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ETR

- Transparent co-extruded OPP film
- For self-adhesive labels and for IML-labels for PP-Injection-moulding
- Film with two different surfaces, one side matt, one side glossy
- The matt surface prevent light reflection
- Good web-flatness



DS ETR UK 09/03

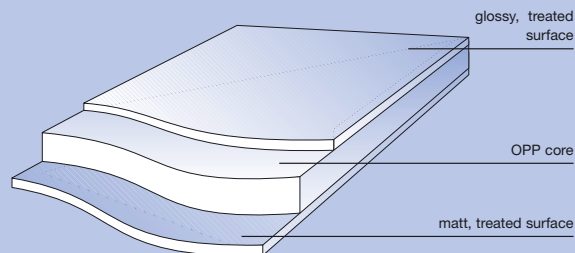
www.treofan.com



TREOFAN

LABEL FILM ETR

The transparent, one side matt, one side glossy film for the label market.



Label Film ETR is a transparent OPP film, specifically developed for label applications.

Label Film ETR is both sides treated, one side matt, one side glossy. The film is normally wound: GO = gloss side outside
GI = gloss side wound inside is available on request.

PRODUCT FEATURES

Physical properties

- high resistance to tear and puncture
- excellent resistance to low temperatures
- dimensionally stable under conditions of varying humidity

Film characteristics

- water repellent
- resistant to oil and grease
- physiologically harmless, thus suitable for food packaging
- resistant to fruit acids and sugar

Optical characteristics

- transparent
- one side matt
- one side gloss

Special characteristics

- printable
- coatable
- good anti-static properties
- good web-flatness
- good machineability

TECHNICAL DATA (Typical Values)

Properties	ETR 57	Unit	Measuring Method
Nominal Thickness	57	µm	ISO 4591
Nominal Thickness	228	Gauge	ISO 4591
Density	0.91	g/cm ³	-
Unit weight	51.9	g/m ²	ISO 4591
Yield	19.3	m ² /kg	ISO 4591
Yield	13600	in ² /lb	ISO 4591
Tensile strength			
machine direction	120	N/mm ²	DIN ISO 527
transverse direction	210	N/mm ²	DIN ISO 527
Elongation at break			
machine direction	180	%	DIN ISO 527
transverse direction	30	%	DIN ISO 527
Surface tension	36-39	mN/m	DIN ISO 8296

Tests have shown that under the prescribed storage conditions the characteristics of Label Film ETR will maintain consistent performance throughout a 6 months period. Label Film ETR is largely unaffected by climatic influences, but should not be stored at temperatures above 40°C (104°F). The rolls should be kept in their original wrapping until used. After the rolls have been unwrapped, they should be stored upright with suitable protection of the edges.

Food Safety

Label Film ETR has been developed specially for packaging foods and meets the specific requirements on health and safety. It meets the FDA and EC regulations, which includes the specific "German Food and Commodity Act" and the current recommendations of the BgVV. Compliance to other specific national regulations are available on request.

AVAILABILITY

Reel length (m):

Label Film	Standard length	6 times standard
ETR 57	1350	8100

Maximum reel o.d. (mm):

Core diameter	Standard length	6 times standard
77 mm	approx. 330	-
152 mm	approx. 350	approx. 790

Max. reel width: 2100 mm

The figures and the data provided in this data sheet are consistent with the current state of our knowledge, and are intended to provide general information on our products and their applications. They do not constitute a guarantee of any specific product attributes or the suitability of products for specific applications. Any existing commercial rights or patents must be observed.