

PRODUCT

Polypropylene EC – Non-oriented polypropylene blown film by extrusion, especially for low temperatures.

PRESENTATION

COILS (tube, semi tube, sheet, etc.) and **BAGS AND OTHER FORMATS** (pouches, sheets, tubes, etc.)

COMPOSITION

The product is a single-layer compound of polypropylene homopolymer (No CAS 9003-07-0) and copolymer (No CAS 9010-79-1)

Additives: this product may contain:

Additives	N° CAS	Dual use
Silicon Dioxide	7631-86-9	E 551
Erucamide	112-84-5	-

All raw materials are listed in the Union list of authorised substances that may be intentionally used in the manufacture of plastic layers in plastic materials and articles set by Regulation (EU) 10/2011 as amended.

All our raw materials come from plants located in the European Union and the product is manufactured in our only plant in Spain.

Printed Film: we use specific flexographic inks which are made and formulated in accordance with “EuPIA” and “CEPE’s Good Manufacturing Practices. They don’t contain any SVHC listed in the candidate list of the ECHA.

For more details, see the Declaration on printing inks “**DEC-FLX-EN**”

FEATURES

- Good mechanical properties
- Heat sterilisable
- Excellent heat-sealing properties
- Good optical properties

EXAMPLES OF APPLICATIONS

Due to its composition, EC Polypropylene has better resistance than the standard material (ST), as shown by the dart break and elongation at break tests. For this reason, it can be used, in addition to the same uses as Polypropylene ST (textile packaging, flower wrapping, film for semi-automatic packaging machines and packaging in general), in uses that require better resistance such as storage of products at low temperatures (not freezing) and in seam packages (sewn bags)

Use in cold environments is influenced by the conditions of use, handling and storage by the packer or end user, therefore no specific guidelines can be provided. It is the customer who must carry out the appropriate checks to establish the suitability of this material for a given use.

NON-SUPPORTED APPLICATIONS

- Medical, pharmaceutical or healthcare applications (because the film does not comply with the Pharmacopoeia)
- Use in conventional or microwave ovens
- Product freezing

STORAGE AND HANDLING

The polypropylene film should be stored in dry conditions at temperatures not above **50°C** and protected from UV-light. Improper storage can initiate degradation, which results in odour generation and colour changes and can have negative effects on the physical properties of this product (blocking, etc.)

Some particles of the film need to stabilize to get their correct physical and mechanical properties, so the polypropylene film should not be manipulated for at least one week after manufacture and must be stored under the above conditions.

We have not set any limit of low temperatures since it depends largely on the use and handling of product. We recommend testing before use

The surface tension will remain within acceptable limits until **6 months** from the date of manufacture and if has been stored in the conditions provided.

SAFETY

The product is not classified as dangerous preparation according to Regulation (EC) 1272/2008 (CLP), so the product doesn't need to be classified nor labelled. However, inhalation of dust can cause irritation to the respiratory system. Prolonged inhalation in high doses of the decomposing product may cause headaches or irritation of the respiratory tract.

It is not mandatory to issue a Safety Data Sheet, because the product does not meet the requirements of Article 31 of Regulation (EC) 1907/2006 REACH.

Incompatible materials: Chlorine, fuming nitric acid and strong oxidizing agents (can release gaseous CO₂)

FOOD CONTACT

The product fulfils the requirements on materials used for articles or components of articles intended to come into contact with food as described in Regulation (EC) No 1935/2004, Regulation (EC) No 2023/2006 and Regulation (EU) No 10/2011 as amended.

See our *Declaration of Compliance (EC-DoC-EN)* for details.

SPECIFICATIONS

TOLERANCES	
Thickness	Tolerance
23 µ up to 40 µ	± 8 %
41 µ up to 61 µ	± 5 %
61 µ up to 140 µ	± 3 %
Parameter	Tolerance
Served quantity	1%

PHYSICAL PROPERTIES ⁽³⁾			
Property	Typical value	Test method	
Vicat softening temperature	141.4 ±1,0 °C	ISO 306	
Melting temperature	152.2 ±0,1 °C	ISO 11357	
Impact resistance (free-falling dart method)	368 ±47 g	ISO 7765	
Puncture resistance	(force at break)	2,32 0,15 N	UNE EN 14477
	(elongation)	2,4 0,1 mm	UNE EN 14477
Coefficient of friction	(film/film) S/D	0,35 ±0,03 / 0,30 ±0.04	ISO 8295
	(film/metal) S/D	0,32 ±0,02 / 0,30 ±0.04	ISO 8295
Haze	2,7 0,8 %	UNE EN 2155	
Gloss	120 3 UB	UNE 53036	
Elongation at break	(MD)	920 ±50 %	ISO 527
	(TD)	800 ±70 %	ISO 527
Tensile strength	(MD)	34,7 ±3,4 MPa	ISO 527
	(TD)	28,8 ±2,5 MPa	ISO 527
Water vapour transmission rate	6 ±3 g/(m ² ·day)	ASTM F1249	
Oxygen gas transmission rate	>2.000 cm ³ /(m ² ·day)	ASTM F1927	
Surface tension (treatment)	≥38 dyn/cm	INTERNAL	

⁽³⁾ Specific film values evaluated on films produced with PLASTICOS FRANCES internal standard conditions with a thickness of 50 µm. Data should be considered only as a guide and should not be considered as guarantee for a customer's specific application.

Disclaimer:

Document issued by the Quality and Product Safety Department.

The information provided in this document has been compiled based on our own information, the information provided by our suppliers and according to the latest knowledge available and applicable legal requirements.

We assume no responsibility for any misinterpretation or misuse of this document.

It is the customer's responsibility to inspect and test our products in order to satisfy itself as to the suitability of the products for the customer's particular purpose. The customer is responsible for the appropriate, safe and legal use, processing and handling of our products.

No liability can be accepted in respect of the use of Plásticos Frances' products in conjunction with other materials. The information contained herein relates exclusively to our products when not used in conjunction with any third-party materials.