

Declaration of Compliance

Product: **ROVAC FILM (Vacuum packaging film)**

Date: 26/04/2024

EU Food contact:

The **ROVAC FILM**, hereafter mentioned as “film”, is produced with raw materials that comply with the relevant requirements of:

- The **Regulation (EC) No 1935/2004** of the European Parliament and of the Council of 27 October 2004 on materials and articles intended to come into contact with food.
- The Commission **Regulation (EU) No 10/2011** of 14 January 2011 on plastic materials and articles to come into contact with food, as amended up to Regulation (EU) 2023/1627.
- This product is manufactured according to the requirements of the Commission **Regulation (EC) No 2023/2006** of 22 December 2006 on good manufacturing practice for materials and articles intended to come into contact with food.

Overall migration:

Overall migration tests carried on this film confirm that it complies with the overall migration limit (OML) of 10mg/dm² for the following food simulants and test conditions:

Food simulant	Test conditions
Ethanol 10% (Food simulant A)	10 days at 40°C (test no. OM2)
Acetic acid 3% (Food simulant B)	10 days at 40°C (test no. OM2)
Isooctane (Alternative food simulant D2)	24 hours at 40°C (equivalent to test no. OM2)

Regulation EU 10/2011 – Annex III:

Food simulant assignment for demonstrating compliance with the overall migration limit	
Foods covered	Food simulants in which testing shall be performed
all types of food	1. distilled water or water of equivalent quality or food simulant A; 2. food simulant B; and 3. food simulant D2.

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Regulation EU 10/2011 – Annex V – chapter 3:

Table 3 Standardised conditions for testing the overall migration		
Column 1	Column 2	Column 3
Test number	Contact time in days [d] or hours [h] at Contact temperature in [°C] for testing	Intended food contact conditions
OM0	30 min at 40 °C	Any food contact at cold or ambient temperatures and for a short duration (≤ 30 minutes).
OM1	10 d at 20 °C	Any food contact at frozen and refrigerated conditions
OM2	10 d at 40 °C	Any long-term storage at room temperature or below, including when packaged under hot-fill conditions, and/or heating up to a temperature T where $70\text{ °C} \leq T \leq 100\text{ °C}$ for a maximum of $t = 120/2^{((T-70)/10)}$ minutes.
OM3	2 h at 70 °C	Any food contact conditions that include hot-fill and/or heating up to a temperature T where $70\text{ °C} \leq T \leq 100\text{ °C}$ for maximum of $t = 120/2^{((T-70)/10)}$ minutes, which are not followed by long-term room temperature or refrigerated storage.

Test OM2 covers also food contact conditions described for OM0, OM1 and OM3.

Information on substances subject to restrictions:

According to the information provided by the raw materials suppliers, available until now, some grades that can be used in the production of the film may contain:

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- Substances subject to specific migration limit (SML) <60mg/kg:

Ref. No	CAS No	SML (mg/kg)
12670	0002855-13-2	6
14200 / 41840	0000105-60-2	15
15274 / 18460	0000124-09-4	2,4
18430	0000116-15-4	ND
18820	0000592-41-6	3
19150	0000121-91-5	5
19960	0000108-31-6	30
22660	0000111-66-0	15
26140	0000075-38-7	5
68320	0002082-79-3	6
Annex II - Aluminium	0007429-90-5	1
Annex II - Zinc	0007440-66-6	5

- Dual-use additives (approved as food additives): E170, E432, E470a, E551, E553b, E1521.

Heavy metals:

The film is produced with raw materials that comply with the following requirements:

- The European Parliament and Council **Directive 94/62/EC** of 20 December 1994 on packaging and packaging waste (which stipulates that the sum of concentration levels of lead, cadmium, mercury and hexavalent chromium present in packaging or packaging components shall not exceed 100ppm by weight).

Other substances:

Based on the available information on the raw materials used in the production of the film, we deem that the following substances are neither used nor intentionally added in their formulations. However, the raw materials as well as the film have not been tested for these substances.

- Allergens (as defined in Regulation (EU) No 1169/2011)
- Bisphenol A (BPA) (Regulation (EU) No 321/2011)
- BADGE, NOGE, BFDGE (Regulation (EC) No 1895/2005)

Notice:

It is the responsibility of the customer to check the suitability of the product for the intended particular purpose.

This declaration only refers to the films in their original form, as supplied by Casfil and does not extend to subsequent modifications.

This declaration shall continue in effect for one year from its issue date.

For further information, please contact a Casfil representative.



***Regulation (EC) No. 1907/2006 (REACH)
Substances of Very High Concern (SVHC)***

Product: **ROVAC FILM**
Date: 17/02/2024

Casfil is a downstream user and producer of articles, according to **Regulation (EC) No. 1907/2006 (REACH)**.

The suppliers of the raw materials used in the production of the **ROVAC** film declare that no substance listed in the ECHA Candidate List of Substances of Very High Concern (SVHC) updated on 23/01/2024 is present in their products in concentration above of 0,1% (w/w).

This declaration only refers to the films in their original form, as supplied by Casfil and does not extend to subsequent modifications.

This declaration shall continue in effect for 1 year from its issue date or until the SVHC list is updated.

Technical Data Sheet



Material: PA LDPE (transparent and with tone) - industrial recovered material incorporated

TECHNICAL DATA		UNIT S	TYPICAL VALUES																TESTING METHOD	
Thickness		µm	60	65	70	80	85	90	100	110	120	130	140	150	160	170	180	190	200	ASTM D 6988
Unit weight		g/m ²	62,1	63,0	67,6	77,1	81,4	87,7	96,2	105,4	114,8	127,5	134,2	143,8	153,3	165,6	176,1	185,9	194,2	ASTM D 646
Yield		m ² /kg	16,1	15,9	14,8	13,0	12,3	11,4	10,4	9,5	8,7	7,8	7,5	7,0	6,5	6,0	5,7	5,4	5,2	ASTM D 4321
MECHANICAL PROPERTIES																				
Tensile strength ⁽¹⁾	MD	MPa	21 - 43																ASTM D882 - 12	
	TD		20 - 39																	
% Elongation at break ⁽¹⁾	MD	%	356 - 590																ASTM D882 - 12	
	TD		400 - 600																	
Slow rate penetration resistance	INT → EXT	N	≥ 9	≥ 9	≥ 10	≥ 11	≥ 12	≥ 13	≥ 14	≥ 16	≥ 17	≥ 19	≥ 20	≥ 22	≥ 24	≥ 26	≥ 28	≥ 30	≥ 30	ASTM F1306 - 90
THERMAL PROPERTIES																				
Sealing initial temperature (P=350kPa; t=1"; 15mm)	NTS / NTS	°C	≥ 120	≥ 120	≥ 125	≥ 125	≥ 130	≥ 130	≥ 130	≥ 135	≥ 135	≥ 140	≥ 145	≥ 145	≥ 150	≥ 155	≥ 160	≥ 165	≥ 170	Vizelpas Method
BARRIER PROPERTIES																				
Oxygen transmission rate (23°C; 0%RH)		cm ³ /m ² /24h	< 91,7	< 91,7	< 83,0	< 78,7	< 78,7	< 70,0	< 58,0	< 48,6	< 39,0	< 38,3	< 32,0	< 29,3	< 24,6	< 22,0	< 20,1	< 19,0	< 18,4	Theoretical value
Water vapor transmission rate (38°C; 90%RH)		g/m ² /24h	≤ 10																Theoretical value	
SURFACE PROPERTIES																				
Dynamic coefficient of friction	F/F	TS-TS	---																ASTM D1894 - 11 ^{e1}	
		NTS-NTS	---																ASTM D1894 - 11 ^{e1}	
Surface tension (treated side)		dyn/cm	≥ 38																ASTM D 2578	

(1) Test specimens with 10mm width. F – F: Film – Film MD: Machine Direction TD: Transversal Direction TS-TS: Treated Side - Treated Side NTS-NTS: Not Treated Side - Not Treated Side INT → EXT: Test performed from the inside to the outside.

Vizelpas's Tolerances:

Thickness/Unit Weight/Yield ± 8%

Films: Width +1mm + 3mm;

Bags: Width; Length ± 3mm

REV12

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FOOD APPROVAL

Vizelpas Flexible Films, S.A. states that our products are manufactured with raw materials intended to come into contact with foodstuffs and meet the requirements of European Community like Regulation (EC) No. 2023/2006 of the Commission of 22 December 2006 and Regulation (EC) 282/2008 of 27 March 2008 on good manufacturing practice for materials and articles intended to come into contact with food, Regulation (EC) No 1935/2004 of 27 October on materials and articles intended to come into contact with food and Council Regulation (EU) No 10/2011 of 14 January 2011 relating to materials and articles of plastics intended to come into food contact and amendments (Regulation N° 321/2011; Regulation N° 1282/2011; Regulation (UE) N° 1183/2012; Regulation N° 202/2014; Regulation N° 865/2014; Regulation N° 2015/174; Regulation (EU) N° 2016/1416; Regulation (UE) N° 2017/752; Regulation (UE) N° 2018/79; Regulation (UE) N°2018/213; Regulation (UE) N°2018/831; Regulation (UE) N°2019/37; Regulation (UE) N° 2019/988); Regulation (EU) 2019/1338.

Vizelpas Flexible Films, S.A. declares that, to the best of our knowledge, and according to information received from our suppliers of raw material used in the composition of products produced/ processed by our company, they are free of allergens in accordance with the Directive 2007/68/EC of 27 November 2007 and GMO-free (genetically modified organisms).

NOTE: The GMO are not applied to the packaging industry which is not biodegradable, which is our case.

PRODUCT'S STORAGE

- ✓ The product should be stored in its original package in a dry and clean place out of range from direct sunlight and away from any heat source;
- ✓ The storage temperature should preferably be between 10°C and 25°C and the relative humidity in the store room should be between 40% and 70%;
- ✓ Generally the storage time, for films, is 1 year for all the films supplied.

EXCEPTIONS:

- 6-8 months for films with corona treatment;
 - 8 months for films with peel;
 - 4 months for films with anti-fog agents.
- ✓ The oldest material should always be used in first place (FIFO);
 - ✓ Do not open the external packages with sharp objects that may damage the product;
 - ✓ Do not overlap pallets, without a suitable barrier;
 - ✓ The product should be placed in its processing place 24 hours before its use.

The information contained herein is based upon applicable law and on our knowledge and experience is provided in good faith on the present state of our knowledge and is intended to describe our product. It is based on tests believed to be reliable. The values shown are averages and they may shift slightly as more data is accumulated. We do not guarantee the same results to be obtained by others under different conditions.

We do not assume any responsibility that this information is enough in every single situation. The users must see this document as informative and should take their own decisions in terms of product adequacy.

If the product is handled in a wrong way and for not recommended applications, Vizelpas will not be responsible.

This Product Technical Specification Sheet supersedes all other issued before.

This Product Technical Specification Sheet must be approved by the Customer. In case the Customer does not send this specification signed corresponding to its acceptance, Vizelpas- Flexible Films, S.A. assumes that, after 15 working days from the date of issue, the customer accepts the Product Technical Specification Sheet.

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