halopack
BY ALEXIR

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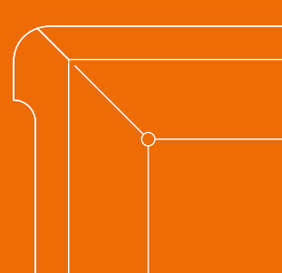
hal.cpack

We cannot solve our problems with the same thinking we used when we created them.

HALOPACK® brings a better product presentation and improved environmental performance. These key aspects were set by us to create a generic solution for the application of modified atmosphere in carton trays.

In terms of durability HALOPACK® brings convenience (People) with responsible packaging materials and food preservation through gas flushed possibilities (Planet) and a packaging system which offers added value for the whole chain (Profit).



Halopack

The first proven hermetically-sealed board tray in the UK food market. A patented design that is fully sealable with a unique inline production system for optimal conservation of food content.

KEY FEATURES:

SUITABLE FOR CHILLED, FROZEN & DELI

For food that requires hermetic seal.

UNIQUE PATENTED DESIGN

A patented design that is fully sealable with unique inline production system for optimal conservation of food content.

HERMETICALLY-SEALED BOARD TRAY

The first proven hermetically-sealed board tray in the UK food market.

EASILY DETACHABLE LINER

Board tray and liner can be placed in separate waste streams to avoid food contamination on the tray.

ENVIRONMENTALLY FRIENDLY

Environmentally-friendly packaging that is made airtight by a top seal.

SHELF-READY PACK

Shelf-ready pack that is easy to open, gives visibility to the consumer & protects food.

KEY BENEFITS:

OPPORTUNITY FOR BRANDING

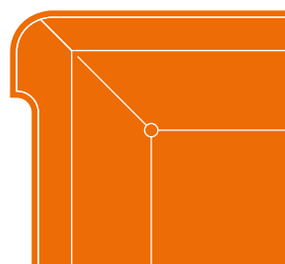
Branding opportunities at eye-level aiding easy product recognition.

PEEL-ABLE LINER

Avoids food contamination & makes board tray fully recyclable.

EXTENDS SHELF LIFE

Extends shelf life, maintains product freshness and reduces food waste.



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P030659

Product identification based on the cardboard inner measurements.

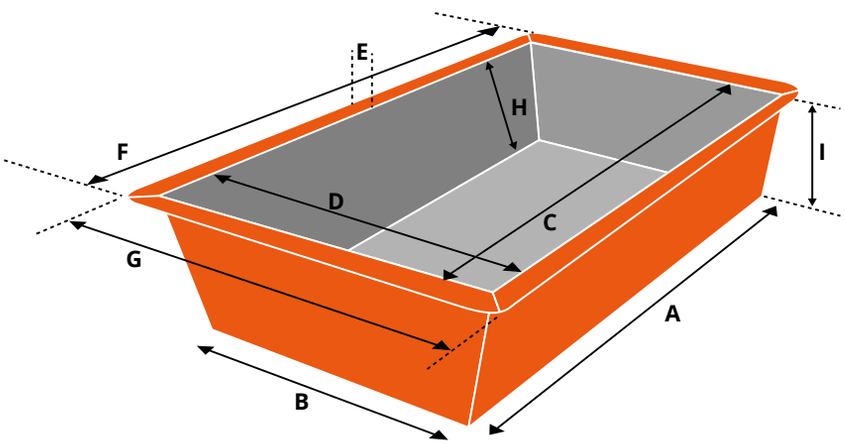
Product specification

Cardboard type*	850mic Uncoated Kraft
Bottom length (A)	164.7mm
Bottom width (B)	133.7 mm
Top inside length (C)	191 mm
Top inside width (D)	160 mm
Width sealing flange (E)	9 mm
Top outside length (F)	210.28 mm
Top outside width (G)	186.19 mm
Side height (H)	35 mm
Tray height (I)	36 mm
Cardboard thickness	600 gsm
Content	720 ml
Printing (offset)	6 colour 1 varnish
HALOPACK Top Web	TS-HB-AF-PL-45

* Cardboard specifics selected by customer

Packaging specification

Packaging type	Cases 330
Packaging unit	330 pcs
Gross weight	11.25 kg
Packaging dimension	575 x 225 x 320
Cases on standard pallet	40
Total on standard pallet	13200
Pallet height	1750 mm
Total pallet weight	470 kg



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P030664

Product identification based on the cardboard inner measurements.

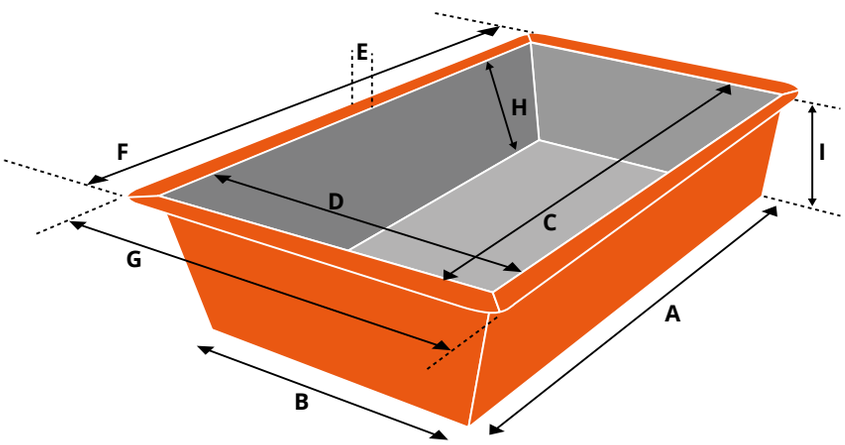
Product specification

Cardboard type*	850mic Uncoated Kraft
Bottom length (A)	150.15 mm
Bottom width (B)	119.15 mm
Top inside length (C)	191 mm
Top inside width (D)	160 mm
Width sealing flange (E)	9 mm
Top outside length (F)	210.29 mm
Top outside width (G)	186.19 mm
Side height (H)	56mm
Tray height (I)	55 mm
Cardboard thickness	600 gsm
Content	1300 ml
Printing (offset)	6 colour 1 varnish
HALOPACK Top Web	TS-HB-AF-PL-45

* Cardboard specifics selected by customer

Packaging specification

Packaging type	Cases 315
Packaging unit	315 pcs.
Gross weight	12.18 kg
Packaging dimension	1575x225x320
Cases on standard pallet	40
Total on standard pallet	12600
Pallet height	1750 mm
Total pallet weight	507 kg



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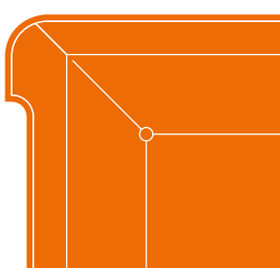


P030663

Product identification based on the cardboard inner measurements.

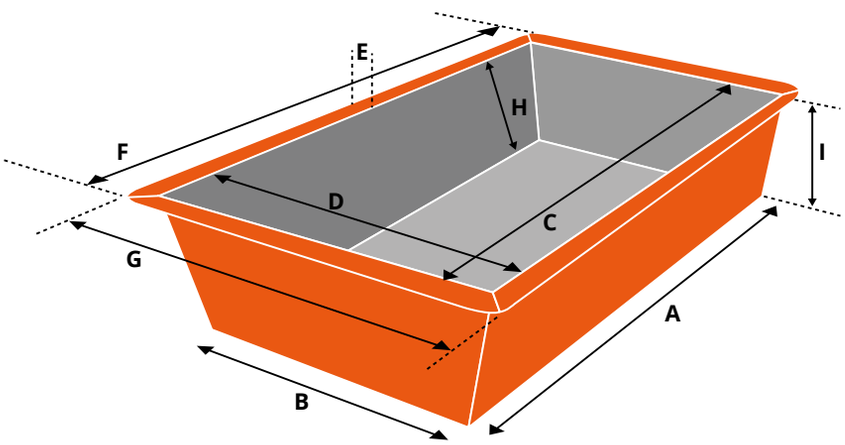
Product specification

Cardboard type*	850mic Uncoated Kraft
Bottom length (A)	135.51 mm
Bottom width (B)	85.5 mm
Top inside length (C)	180 mm
Top inside width (D)	130 mm
Width sealing flange (E)	9 mm
Top outside length (F)	199.29 mm
Top outside width (G)	149.29 mm
Side height (H)	61 mm
Tray height (I)	60 mm
Cardboard thickness	600 gsm
Content	980 ml
Printing (offset)	6 colour 1 varnish
HALOPACK Top Web	TS-HB-AF-PL-45

* Cardboard specifics selected by customer

Packaging specification

Packaging type	Cases 390
Packaging unit	390 pcs
Gross weight	12.84 kg
Packaging dimension	485 x 215 x 400
Cases on standard pallet	40
Total on standard pallet	15600
Pallet height	1750 mm
Total pallet weight	534 kg



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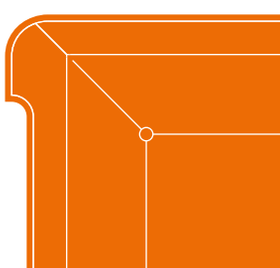


P038714

The eight-sided shape of this Halopack fits in most existing tooling. This results in minimal disruption to production lines, as tooling does not need to be changed between filling of rectangular plastic trays and the eight-sided Halopack. Consequently, major investment is not necessary.

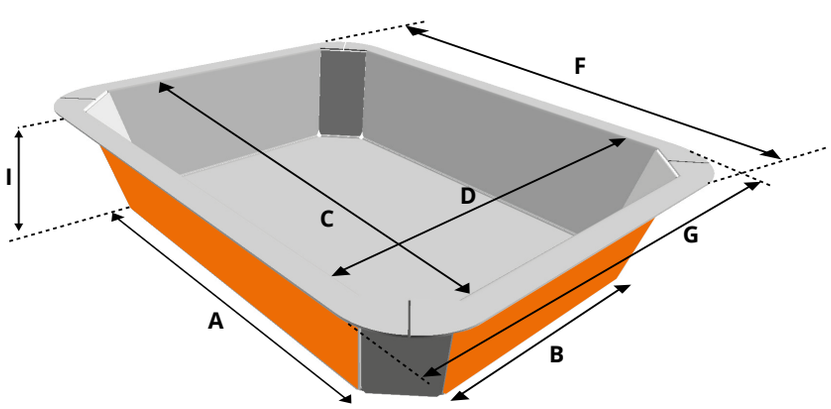
Product specification

Cardboard type*	850mic Uncoated Kraft
Bottom length (A)	147.17 mm
Bottom width (B)	97.17 mm
Top inside length (C)	180.32 mm
Top inside width (D)	130.32 mm
Top outside length (F)	219 mm
Top outside width (G)	169 mm
Tray height (I)	45 mm
Cardboard thickness	600 gsm
Content	1100 ml
Printing (offset)	6 colour 1 varnish
HALOPACK Top Web	TS-HB-AF-PL-45

* Cardboard specifics selected by customer

Packaging specification

Packaging type	Cases 225
Packaging unit	225 pcs.
Gross weight	8.90 kg
Packaging dimension	485 x 215 x 400 mm
Cases on standard pallet	32
Total on standard pallet	7200
Pallet height	1450 mm
Total pallet weight	306.80 kg



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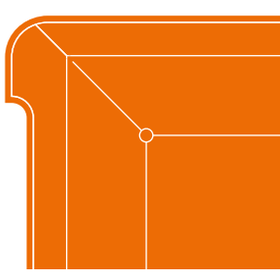


P030704

Product identification based on the cardboard inner measurements.

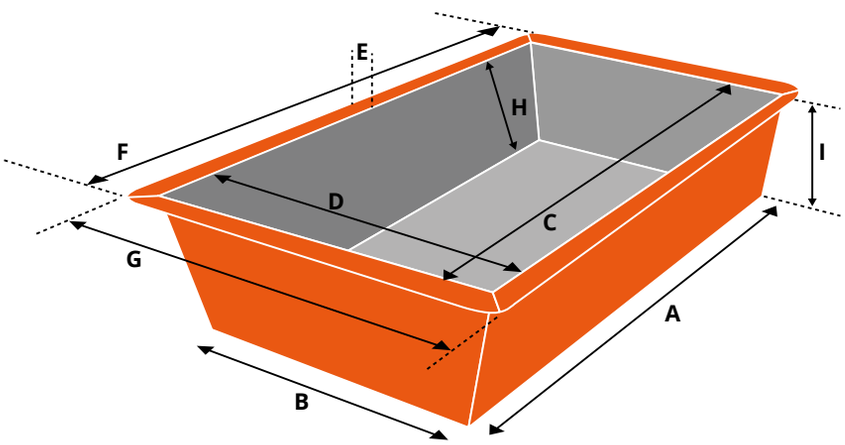
Product specification

Cardboard type*	850mic Uncoated Kraft
Bottom length (A)	260.29 mm
Bottom width (B)	130.29 mm
Top inside length (C)	281.51 mm
Top inside width (D)	152.51 mm
Width sealing flange (E)	9 mm
Top outside length (F)	301.51 mm
Top outside width (G)	171.51 mm
Side height (H)	61 mm
Tray height (I)	60 mm
Cardboard thickness	600 gsm
Content	2500 ml
Printing (offset)	6 colour 1 varnish
HALOPACK Top Web	TS-HB-AF-PL-45

* Cardboard specifics selected by customer

Packaging specification

Packaging type	Cases 210
Packaging unit	210 pcs.
Gross weight	12.30 kg
Packaging dimension	555x315x400
Cases on standard pallet	24
Total on standard pallet	5040
Pallet height	1750 mm
Total pallet weight	316 kg



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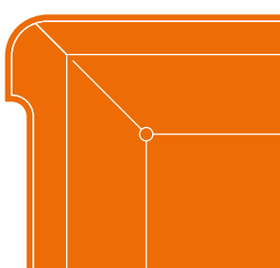


P027683

Product identification based on the cardboard inner measurements.

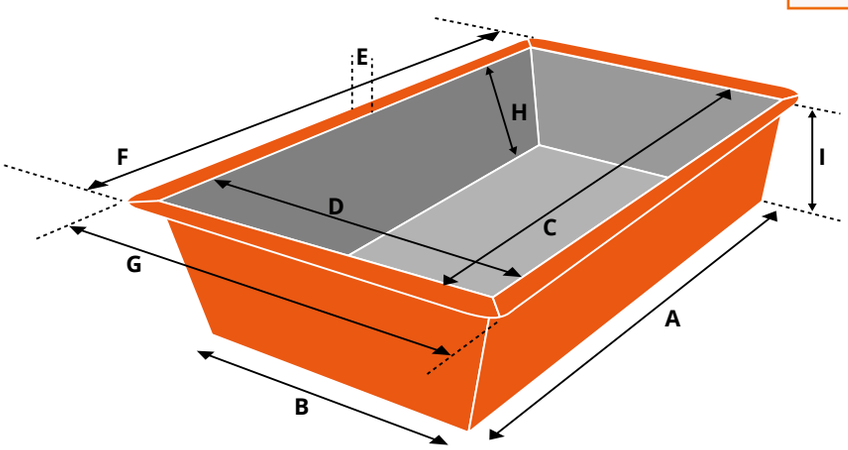
Product specification

Cardboard type*	850mic Uncoated Kraft
Bottom length (A)	170.18 mm
Bottom width (B)	150.18 mm
Top inside length (C)	184.61 mm
Top inside width (D)	164.61 mm
Width sealing flange (E)	9 mm
Top outside length (F)	203.61 mm
Top outside width (G)	183.61 mm
Side height (H)	38 mm
Tray height (I)	37.6 mm
Cardboard thickness	600 gsm
Content	1000 ml
Printing (offset)	6 colour 1 varnish
HALOPACK Top Web	TS-HB-AF-PL-45

* Cardboard specifics selected by customer

Packaging specification

Packaging type	Cases 150
Packaging unit	150 pcs.
Gross weight	5.59 kg
Packaging dimension	590 x 240 x 285 mm
Cases on standard pallet	40
Total on standard pallet	6000
Pallet height	1575 mm
Total pallet weight	245.53 kg



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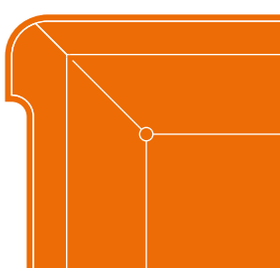


P027684

Product identification based on the cardboard inner measurements.

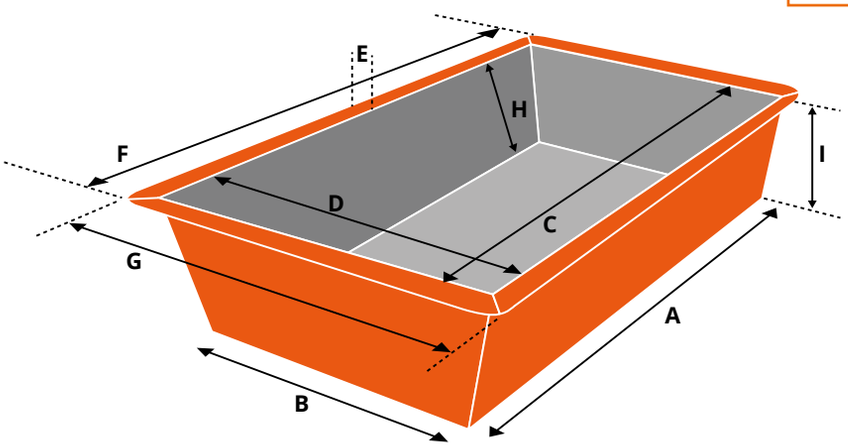
Product specification

Cardboard type*	850mic Uncoated Kraft
Bottom length (A)	272.63 mm
Bottom width (B)	142.63 mm
Top inside length (C)	284.57 mm
Top inside width (D)	153.57 mm
Width sealing flange (E)	9 mm
Top outside length (F)	302.57 mm
Top outside width (G)	172.57 mm
Side height (H)	28 mm
Tray height (I)	27.46 mm
Cardboard thickness	600 gsm
Content	1200 ml
Printing (offset)	6 colour 1 varnish
HALOPACK Top Web	TS-HB-AF-PL-45

* Cardboard specifics selected by customer

Packaging specification

Packaging type	Cases 270
Packaging unit	270 pcs.
Gross weight	12.1 kg
Packaging dimension	590 x 325 x 380 mm
Cases on standard pallet	24
Total on standard pallet	6480
Pallet height	1670 mm
Total pallet weight	312.37 kg



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P037891

Product identification based on the cardboard inner measurements.

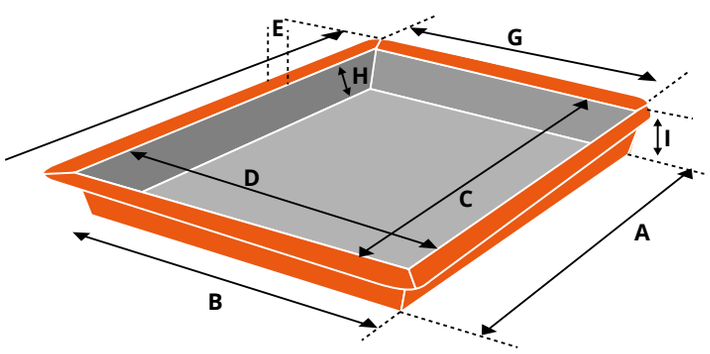
Product specification

Cardboard type*	711mic SBS
Bottom length (A)	156.65 mm
Bottom width (B)	114.65 mm
Top inside length (C)	163.39 mm
Top inside width (D)	121.39 mm
Width sealing flange (E)	16.01mm
Top outside length (F)	197 mm
Top outside width (G)	155 mm
Side height (H)	13 mm
Tray height (I)	13.5 mm
Cardboard thickness	462 gsm
Content	233 ml

* Cardboard specifics selected by customer

Packaging specification

Packaging type	Cases 390
Packaging unit	390 pcs
Gross weight	7.04 kg
Packaging dimension	475 x 210 x 315 mm
Colli on standard pallet	50
Total on standard pallet	19500
Pallet height	1735 mm
Total pallet weight	379.9 kg



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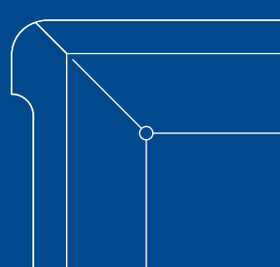
Skinpack



Skinpack

A proven shallow hermetically-sealed board tray in the UK food market. The new member of the Halopack® family.

KEY FEATURES:

SHALLOW HERMETICALLY SEALED CARTON

Proven in the market.

AIRTIGHT TOP SEAL

Environmentally-friendly packaging made airtight.

INNOVATIVE LIP DESIGN

Contains any residue or juice when the top seal is removed.

SOLID BOARD CONSTRUCTION

Gives rigidity to the tray and prevents bowing of the board.

EASILY DETACHABLE LINER

Allows the consumer to place the board tray and liner in separate waste streams and avoids food contamination on the tray.

UNIQUE INLINE PRODUCTION

A patented design that is fully sealable with a unique inline production system for optimal conservation of food content.

KEY BENEFITS:

FULL COLOUR OFFSET PRINTABLE

Both inside & outside the board tray.

PEEL-ABLE LINER

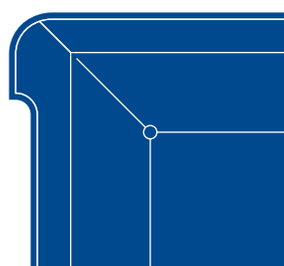
Prevents food contamination making the board tray fully recyclable.

EXTENDS SHELF LIFE

Extends shelf life, maintains product freshness & reduces food waste.

COMPATIBLE WITH EXISTING SKINNING MACHINES

A low-cost option for a pack change.



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halopack® skinpack BY ALEXIR

D15

Product identification based on the cardboard inner measurements.

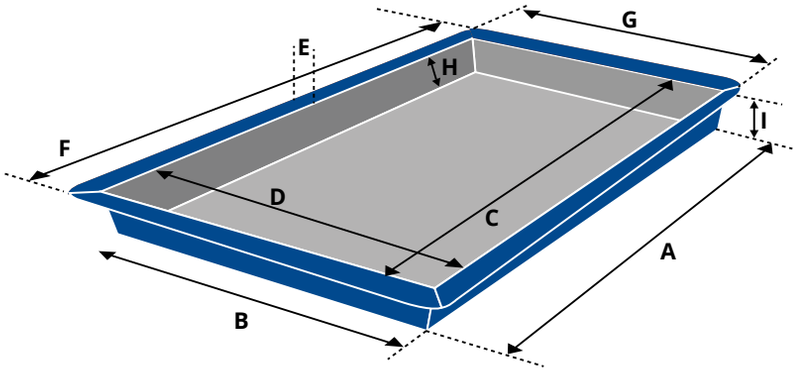
Product specification P037970

Cardboard type*	711mic SBS
Bottom length (A)	227.65 mm
Bottom width (B)	144.81 mm
Top inside length (C)	232.24 mm
Top inside width (D)	149.4 mm
Width sealing flange (E)	12 mm
Top outside length (F)	258 mm
Top outside width (G)	175 mm
Side height (H)	13 mm
Tray height (I)	13.5 mm
Cardboard thickness	462 gsm
Content	428 ml

* Cardboard specifics selected by customer

Packaging specification

Packaging type	Cases 220
Packaging unit	220 pcs
Gross weight	5.91 kg
Packaging dimension	370 x 275 x 315 mm
Colli on standard pallet	50
Total on standard pallet	11000
Pallet height	1735 mm
Total pallet weight	323.7 kg



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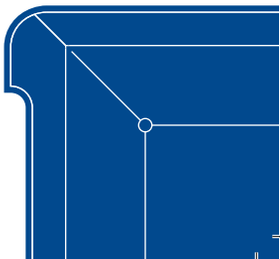


halopack skinpack BY ALEXIR

D2

Product identification based on the cardboard inner measurements.

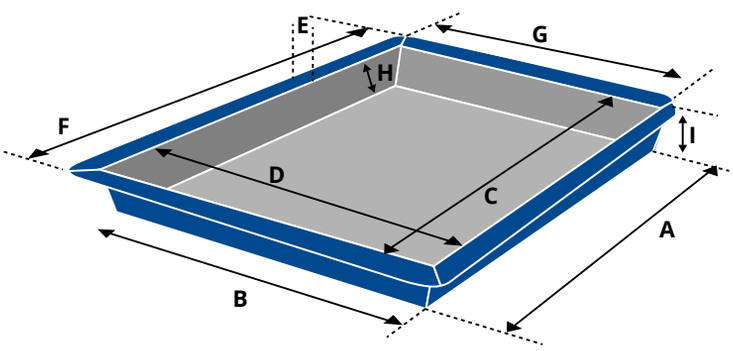
Product specification P037891

Cardboard type*	711mic SBS
Bottom length (A)	156.65 mm
Bottom width (B)	114.65 mm
Top inside length (C)	163.39 mm
Top inside width (D)	121.39 mm
Width sealing flange (E)	16.01mm
Top outside length (F)	197 mm
Top outside width (G)	155 mm
Side height (H)	13 mm
Tray height (I)	13.5 mm
Cardboard thickness	462 gsm
Content	233 ml

* Cardboard specifics selected by customer

Packaging specification

Packaging type	Cases 390
Packaging unit	390 pcs
Gross weight	7.04 kg
Packaging dimension	475 x 210 x 315 mm
Colli on standard pallet	50
Total on standard pallet	19500
Pallet height	1735 mm
Total pallet weight	379.9 kg



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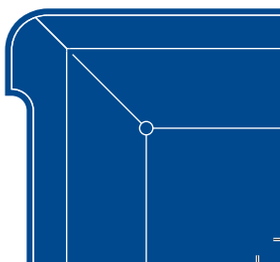

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S6

Product identification based on the cardboard inner measurements.

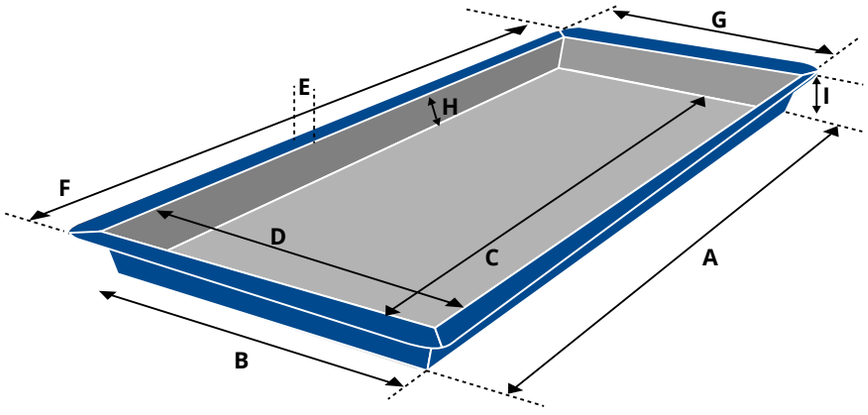
Product specification P037890

Cardboard type*	711 mic SBS
Bottom length (A)	299.65 mm
Bottom width (B)	114.65 mm
Top inside length (C)	306.39 mm
Top inside width (D)	146.39 mm
Width sealing flange (E)	16.01 mm
Top outside length (F)	340 mm
Top outside width (G)	180 mm
Side height (H)	13 mm
Tray height (I)	13.5 mm
Cardboard thickness	462 gsm
Content	446 ml

* Cardboard specifics selected by customer

Packaging specification

Packaging type	Cases 360
Packaging unit	360 pcs
Gross weight	10.84 kg
Packaging dimension	555 x 350 x 315 mm
Colli on standard pallet	25
Total on standard pallet	9000
Pallet height	1725 mm
Total pallet weight	291 kg



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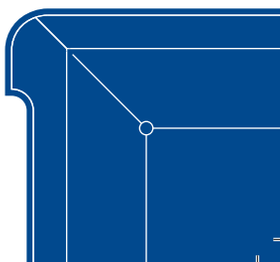
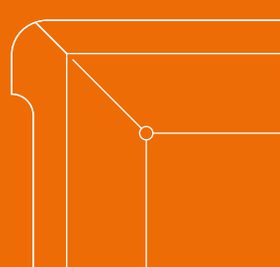


Film specs



HALOPACK BF-HB-3D-085

HALOPACK 3D FORMING FILM

Productspecification

HALOPACK BF-HB-3D-100-PL	Typical value	Unit
Material combination	PE, EVOH	
Reel length	800	m
Total thickness	85	µm
Grammage	81	g/m2
Yield	12.3	m2/kg
HS-Code	39.20.10.25	

Technical data

HALOPACK BF-HB-3D-085-PL	Typical value	Unit	Test Method
Water vapour transmission [1]	6	g/m²/24 h	ASTM E 96
O2 –transmission [2]	2	cm³/m²/24 h	ASTM F 1927
N2 –transmission [2]	<1	cm³/m²/24 h	(theoretical)
CO2 –transmission [2]	9	cm³/m²/24 h	(theoretical)
Elongation MD	400	%	ASTM D 882
Elongation TD	450	%	ASTM D 882
Puncture resistance	5	N	DIN EN 14477

Food compliance

Regulation (EC) No 1935/2004
Regulation (EC) No 2023/2006
Regulation (EU) No 10/2011, as amended
Directive 94/62/EC, as amended

Recommended storage conditions: 4-24 °C, 30-60 % RH, for up to 12 months, except for AF products 6 months. Store in a clean dry place away from direct heat and direct sunlight. Keep in original packaging until ready for use.

IMPORTANT: The typical values documented were determined by statistical analyses of limited sample size, and they are subject to revision as additional information is gained. The typical data is meant for comparative purposes only. Customers are solely responsible for determining the suitability of this product for their intended use.

[1] At conditions: 38 °C, 90 % RH, 1 atm
[2] At conditions: 23 °C, 50 % RH, 1 atm

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191128/1623

HALOPACK BF-HB-3D-085-PL

HALOPACK 3D FORMING FILM WITH PEEL FUNCTION FOR SKIN AND CLAMSHELL USE

Productspecification

HALOPACK BF-HB-3D-100-PL	Typical value	Unit
Material combination	PE, EVOH	
Reel length	800	m
Total thickness	85	µm
Grammage	81	g/m2
Yield	12.3	m2/kg
HS-Code	39.20.10.25	

Technical data

HALOPACK BF-HB-3D-085-PL	Typical value	Unit	Test Method
Water vapour transmission [1]	6	g/m²/24 h	ASTM E 96
O2 –transmission [2]	2	cm³/m²/24 h	ASTM F 1927
N2 –transmission [2]	<1	cm³/m²/24 h	(theoretical)
CO2 –transmission [2]	9	cm³/m²/24 h	(theoretical)
Elongation MD	400	%	ASTM D 882
Elongation TD	450	%	ASTM D 882
Puncture resistance	5	N	DIN EN 14477

Food compliance

Regulation (EC) No 1935/2004
Regulation (EC) No 2023/2006
Regulation (EU) No 10/2011, as amended
Directive 94/62/EC, as amended

Recommended storage conditions: 4-24 °C, 30-60 % RH, for up to 12 months, except for AF products 6 months. Store in a clean dry place away from direct heat and direct sunlight. Keep in original packaging until ready for use.

IMPORTANT: The typical values documented were determined by statistical analyses of limited sample size, and they are subject to revision as additional information is gained. The typical data is meant for comparative purposes only. Customers are solely responsible for determining the suitability of this product for their intended use.

[1] At conditions: 38 °C, 90 % RH, 1 atm
[2] At conditions: 23 °C, 50 % RH, 1 atm

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HALOPACK TS-HB-AF-PL-45

HALOPACK HIGH BARRIER PEALABLE ANTI FOG LIDDING FILM

Productspecification

HALOPACK TS-HB-AF-PL-45 (Peel + Anti Fog)	Typical value	Unit
Material combination	PA, EVOH, PE	
Reel length	1500	m
Total thickness	45	µm
Grammage	44	g/m2
Yield	22.7	m2/kg
HS-Code	39.20.10.25	

Technical data

HALOPACK TS-HB-AF-PL-45 (Peel + Anti Fog)	Typical value	Unit	Test Method
Water vapour transmission [1]	18	g/m²/24 h	ASTM E 96
O2 –transmission [2]	5	cm³/m²/24 h	ASTM F 1927
N2 –transmission [2]	0.9	cm³/m²/24 h	(theoretical)
CO2 –transmission [2]	25	cm³/m²/24 h	(theoretical)
Elongation MD	90	%	ASTM D 882
Elongation TD	30	%	ASTM D 882
Puncture resistance	5	N	DIN EN 14477
Haze	TBD	%	ASTM D 1003
Gloss (60°)	TBD	%	ASTM D 2457
Sealing temperature range	TBD	°C	

Food compliance

Regulation (EC) No 1935/2004
Regulation (EC) No 2023/2006
Regulation (EU) No 10/2011, as amended
Directive 94/62/EC, as amended

Recommended storage conditions: 4-24 °C, 30-60 % RH, for up to 12 months, except for AF products 6 months. Store in a clean dry place away from direct heat and direct sunlight. Keep in original packaging until ready for use.

IMPORTANT: The typical values documented were determined by statistical analyses of limited sample size, and they are subject to revision as additional information is gained. The typical data is meant for comparative purposes only. Customers are solely responsible for determining the suitability of this product for their intended use.

[1] At conditions: 38 °C, 90 % RH, 1 atm
[2] At conditions: 23 °C, 50 % RH, 1 atm

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HALOPACK TSKN-HB-100

HALOPACK TOP SKIN LINER

Productspecification

HALOPACK BF-HB-3D-100	Typical value	Unit
Material combination	PE, EVOH	
Reel length	700	m
Total thickness	100	µm
Grammage	96	g/m2
Yield	10.4	m2/kg
HS-Code	39.20.10.25	

Technical data

HALOPACK TSKN-HB-100	Typical value	Unit	Test Method
Water vapour transmission [1]	5	g/m²/24 h	ASTM E 96
O2 –transmission [2]	2	cm³/m²/24 h	ASTM F 1927
N2 –transmission [2]	<1	cm³/m²/24 h	(theoretical)
CO2 –transmission [2]	9	cm³/m²/24 h	(theoretical)
Elongation MD	450	%	ASTM D 882
Elongation TD	450	%	ASTM D 882
Puncture resistance	6	N	DIN EN 14477
Haze	16	%	ASTM D 1003

Food compliance

Regulation (EC) No 1935/2004
Regulation (EC) No 2023/2006
Regulation (EU) No 10/2011, as amended
Directive 94/62/EC, as amended

Recommended storage conditions: 4-24 °C, 30-60 % RH, for up to 12 months, except for AF products 6 months. Store in a clean dry place away from direct heat and direct sunlight. Keep in original packaging until ready for use.

IMPORTANT: The typical values documented were determined by statistical analyses of limited sample size, and they are subject to revision as additional information is gained. The typical data is meant for comparative purposes only. Customers are solely responsible for determining the suitability of this product for their intended use.

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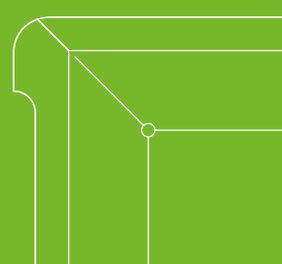

ARTWORK GUIDELINES

FILE SUBMISSION:

Files can be supplied to the Alexir via email or our website – www.alexir.co.uk- Click on the Packaging tab, scroll down to Upload Artwork, then please follow the instructions on screen.

FILE FORMAT:

Adobe Illustrator (latest version) with linked images and saved with pdf preview. Any other formats must be agreed by prior agreement.

FILE PREPARATION:

Cutter Profile: Artwork must be built using an approved profile supplied by Alexir, ensuring supplied register marks are included. The profile should be on it's own layer in a suitably named separation set to overprint. Any amendments required to the provided profile (window aperture changes etc.) must be requested through Alexir.

Images: Should be supplied in CMYK at a minimum of 300ppi resolution at actual print size. Images should be linked rather than embedded and be supplied as PSD or TIFF files with no compression.

Varnish: Should be clearly marked on own layer and separation and consist of solid vectored elements only.

Total Ink Coverage (TIC): 300% maximum on outside of the tray. If the inside of the tray is to be printed please keep TIC as low as possible under 240% and seek approval from Alexir before proceeding.

Metallic Inks: If required please discuss with Alexir before proceeding.

Font/Text (minimum sizes): Positive = 5pt / Negative = 6pt / Multiple inks = 7pt

All fonts to be outlined.

Line Weights (minimum): Positive = 0.1mm / Negative = 0.2mm / Multiple inks = 0.2mm

Print to Cut Margin: All text and graphical detail to be kept minimum 2mm away from any cutter profile line.

Bleed: 3mm

BROWN KRAFT SUBSTRATE:

If a design is printing on a brown kraft substrate then white inks may be required underneath certain elements.

PLEASE NOTE: printed whites can not reach the same level of whiteness (opacity) as a white substrate. Samples of previous print are available on request from Alexir to indicate acheivable white level.

COLOUR PROOFING:

Digital Fogra 39L colour proofs can be supplied if required. These are colour accurate for process colours, spot colours should be matched to the Pantone colour library or agreed ink drawdowns. PLEASE NOTE: digital proofs cannot replicate printed white ink.

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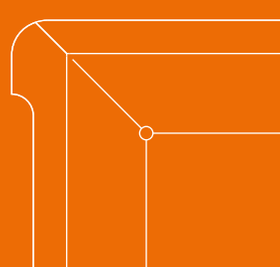
compliance



Compliance Statement HALOPACK®

SoC according to EU Regulation 1935/2004

Version: 1.5

Remarks on update: NOT SPECIFIED

1. Issued by

Halopack N.V. (Hereinafter referred to as "We", "Us", or "Our").
Slachthuiskade 40
7602 CV Almelo
The Netherlands

2. Manufactured/imported by

Identical to the details listed under point 1 within this document.

3. Identity of the product

MAP container HT (Hereinafter referred to as "Product").
Identification: labeled per unique customer specific number, preceded by an H (H0000 – H9999).
Product type: Final material or article.
Product description: MAP container composed of a PE - EVOH -PE barrier film and cardboard.

4. Issue date

2019-11-29

5. Applicable legislation and purity confirmation

European Commission Regulationdefinition:

- 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 and repealing Directives 80/590/EEC and 89/109/EEC, (hereinafter referred to as "Regulation (EC) No 1935/2004").
- COMMISSION REGULATION (EC) No 2023/2006 of 22 December 2006 on goodmanufacturing practice for materials and articles intended to come into contact with food, amended up to COMMISSION REGULATION (EC) No 282/2008 of 27 March 2008, (hereinafter referred to as "Regulation (EC) No2023/2006").
- COMMISSION REGULATION (EU) No 10/2011 of 14 January 2011 on plastic materials and articles intended to come into contact with food, amended up to COMMISSION REGULATION (EU) 2015/174of 5 February 2015, (hereinafter referred to as "Regulation (EU) No10/2011").
- COMMISSION REGULATION (EC) No 282/2008 of 27 March 2008 on recycled plastic materials and articles intended to come into contact with foods and amending Regulation (EC) No 2023/2006, amended up to COMMISSION REGULATION (EU) 2015/1906 of 22 October 2015, (hereinafterreferred to as "Regulation (EC) No282/2008").

A. Europe

i. Compliance with the requirements of the Framework Regulation
Regulation (EC) No 2023/2006; Good Manufacturing Practice (GMP): YES
Article 3 of Regulation (EC) No 1935/2004; General safety aspects: YES
Article 17 of Regulation (EC) No 1935/2004; Traceability: YES

ii. Compliance with the requirements of the Plastics Regulation
Regulation (EU) No 10/2011: YES
Plastics used to produce this Product and not separated from the food by a functional barrier are manufactured from only monomers, other starting substances and additives authorized under Regulation (EU) No 10/2011.

iii. Compliance with the requirements of the Recycled Plastics Regulation
Regulation (EC) 282/2008: NOT APPLICABLE

iv. Other EUlegislation
Other EU legislation: NOT SPECIFIED

B. Member State legislation and non-European legislation

Intentionally added substances not subject to listing in Annex I according to Article 6 of Regulation (EU) No 10/2011, and other components made from non-plastic materials, are either risk assessed in accordance with Article 3 of Regulation (EC) No 1935/2004 or comply with the requirements of the legislation listed below.

National legislation in EU Member States

Material group	Country	Legislation
PAPER AND BOARD	Germany - BfR XXXVI	BfR Recommendations XXXVI. Paper and board for food contact. Specifications of use: N/A

Legislation for countries outside the EU

Material group	Country	Legislation
PRINTING INKS	Switzerland	Annex 6 of the Ordinance of the FDHA on articles and materials of 23 November 2005 (RS 817.023.21): Lists of permitted substances for the manufacture of packaging inks, subject to the requirements set out therein Specifications of use: N/A

C. Non-intentionally added substances

Non-intentionally added substances in plastics, according to Article 6(4a) of Regulation (EU) No 10/2011, and in non-plastic materials, are risk assessed in accordance with Article 3 of Regulation (EC) No 1935/2004. Adequate information on non-intentionally added substances can be found in section 6A of this document.

D. Overall migration limit

This product complies with the overall migration limit tested under the following conditions:

Simulants
A: Ethanol 10% (v/v) B: Acetic acid 3% (w/v) D2: Vegetable oil. This may be any vegetable oil with a fatty acid distribution as described in EC10/2011.

Test conditions

Test number	Test conditions	Intended food contact conditions	Covers also food contact conditions described for
OM5	2 h at 100 °C or at reflux or alternatively 1 h at 121°C	High temperature applications up to 121°C.	Covers also food contact conditions described for OM1, OM2, OM3, OM4. It represents the worst case conditions for all food simulants in contact with polyolefins.

E. Organoleptic properties

We have not determined whether a material or final article that is produced with this Product will induce an unacceptable change in the composition of the food or will cause deterioration of the organoleptic properties of the food. It is the responsibility of the downstream user to perform these tests.

6. Limits, restrictions and compositional specifications

A. Limits and restrictions of non-listed substances

This Product does not contain non-listed substances with restrictions.

B. Substances with limits and restrictions as listed in Regulation (EU) No 10/2011, Annex I

FCM number	EEC reference number	CAS number	Substance name	Maximum concentration	Maximum use level
69	74400	-	phosphorous acid, tris(nonyl- and/ or dinonylphenyl) ester	-	N/A
356	18820	0000592-41-6	1-hexene	-	N/A
433	68320	0002082-79-3	octadecyl 3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate	-	N/A
584	13620; 40320	0010043-35-3	boric acid	-	N/A
282	18430	0000116-15-4	hexafluoropropylene	-	N/A
150	20020	0000079-41-4	methacrylic acid	-	N/A
234	19960	0000108-31-6	maleic anhydride	-	N/A
315	46640	0000128-37-0	2,6-di-tert-butyl-p-cresol	-	N/A
231	10120	0000108-05-4	acetic acid, vinyl ester	-	N/A
132	26140	0000075-38-7	vinylidene fluoride	-	N/A

C. Limits and restrictions as listed in Regulation (EU) No 10/2011, Annex I

i. Restrictions; Annex I - table 1

FCM number	Fat reduction factor	Restriction(s)	Restrictions and specifications	Notes
69	yes	SML: 30 mg/kg	-	N/A
356	no	SML: 3 mg/kg	-	N/A
433	yes	SML: 6 mg/kg	-	N/A
584	no	Group: (16)	-	N/A
282	no	SML = ND	-	N/A
150	no	Group: (23)	-	N/A
234	no	Group: (3)	-	N/A
315	no	SML: 3 mg/kg	-	N/A
231	no	SML: 12mg/kg	-	N/A
132	no	SML: 5 mg/kg	-	N/A

ii. Group restrictions; Annex 1 - table 2

Number	Restriction(s)	Other substances in this group
Group (23)	SML(T) 6 mg/kg; expressed as methacrylic acid	150, 156, 181, 183, 184, 355, 370, 374,
Group (16)	SML(T) 6 mg/kg; expressed as boron Without prejudice to the provisions of Directive 98/83/EC.	407, 583, 584, 599
Group (3)	SML(T) 30 mg/kg; expressed as maleic acid.	234, 248

iii. Notes on verification of compliance; Annex I - table 3
No notes on verification of compliance are present

D. Limits and restrictions as listed in Regulation (EU) No 10/2011, Annex II, Metals

This Product does not contain metals with restrictions listed in Annex II.

E. Limits and restrictions as listed in Regulation (EC) No 10/2011, Annex II, Primary Aromatic Amines

This Product may contain Primary Aromatic Amines according to Annex II: YES

F. Compliance confirmation

This Product complies with the limits and restrictions in points 6A, 6C, 6D and 6E within this document, based on worst-case calculations, migration modeling or migration testing.

Specific migration is tested under the following conditions:

Test conditions			
Contact time:	Above 30 days at refrigerated and frozen conditions	Contact temperature:	10 days at 40 °C
Test time:	10 days at 40 °C	Test temperature:	40 °C
Contact time:	0,5 h < t ≤ 1 hour	Contact temperature:	100 °C < T ≤ 121 °C
Test time:	1 hours	Test temperature:	121 °C (*) (*) This temperature shall be used only for food simulants D2 and E. For applications heated under pressure migration testing under pressure at the relevant temperature may be performed. For food simulants A, B, C or D1 the test may be replaced by a test at 100 °C or at reflux temperature for duration of four times the time selected according to the conditions in Table 1.
Contact time:	3 days < t ≤ 30 days	Contact temperature:	20 °C < T ≤ 40 °C
Test time:	10 days	Test temperature:	40 °C

The following substances with limitations in this Product have not yet been risk assessed by Us and therefore need to be evaluated by the downstream user based on the information listed below:

i. Non-listed substances
All substances comply with the applicable limitations.

ii. Substances listed in Regulation (EU) No 10/2011, Annex I
All substances comply with the applicable limitations.

iii. Substances listed in Regulation (EU) No 10/2011, Annex II, Metals
All metals comply with the applicable limitations.

iv. Substances listed in Regulation (EU) No 10/2011, Annex II, Primary Aromatic Amines
Primary Aromatic Amines will not migrate in detectable quantities above the detection limit of 0.01 mg/kg.

G. Inks, coatings or adhesive

In case this product is printed on, covered by a coating, or if different layers are held together by adhesives, We confirm that substances listed in Annex I, coming from inks, adhesives or coatings used in this Product, comply with the relevant restrictions.

This Product may contain substances with limitations listed in the tables under 6A or 6B within this document coming from inks, adhesives or coatings but may not be identified as such by Our suppliers.

7. Dual Use Additive(s)

A substance is defined as a "Dual Use Additive" if the chemical identity of the plastic additive matches that of an authorized food additive or flavoring, regardless of its purity or whether or not the substance is subject to a restriction in food and/or in the plastic. In the case of salts it is the salt that matters, not the authorized acid, phenol or alcohol.

Number (E) or (FL)	Name	Maximum concentration
E 321	Butylated hydroxytoluene (BHT)	-
E 284	Boric acid	-

The purity of the Dual Use Additives used in this Product respect the purity criteria set out in Annex I of Regulation (EU) No 10/2011.

8. Specifications for use

Specifications of use as regards of type or types of food

All type of foods

Specifications for use as regards of time and temperature of treatment and storage of food

Maximum contact time equals 30 days. Maximum contact temperature equals 40°C.
For storage times above 30 days at refrigerated and frozen conditions, including heating up to 70 °C for up to 2 hours, or heating up to 100 °C for up to 15 minutes.
Maximum contact time equals 1 hour. Maximum contact temperature equals 121°C.

Any other limitations of use

The product is not tested for applications heated under pressure.
Compliant with the provisions within Regulation (EU) No 10/2011 for infants and young children: NO
Compliant with the provisions within Regulation (EU) No 10/2011 for repeated-use articles: NO
A surface/volume ratio expressed in dm² FCM/kg food of: 6 dm² FCM / kg food

9. Functional barrier

This Product contains a functional barrier: YES

Substances behind this functional barrier that are not authorized by Regulation (EU) No 10/2011 will not migrate in quantities above the detection limit of 0.01mg/kg.

- These non-authorized substances are not classified as "mutagenic", "carcinogenic" or "toxic to reproduction" in accordance with the criteria set out in sections 3.5, 3.6 and 3.7 of Annex I to CLP Regulation (EC) No 1272/2008 of the European Parliament and the Council.
- These non-authorized substances are not in Nano form as defined by the Commission Recommendation on the 18th of October 2011 on the definition of nanomaterial (2011/696/EU).

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Legend
(1) If the compliance assessment is based on a worst-case family strategy, the identity of the product on which the compliance assessment is based will be indicated here.

* Substances marked with a single asterisk in this document are reportable substances with variable concentrations due to variations in supply source.

** Substances marked with a double asterisk in this document are not present in this product. However, they are included in this document due to compliance assessment of a worst-case product.

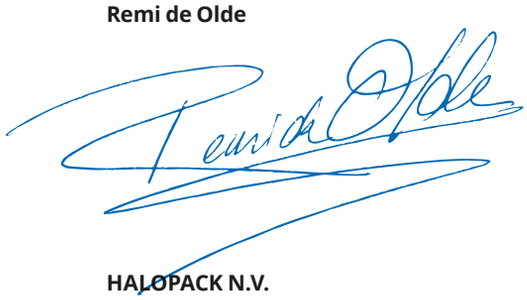
*** Substances marked with a triple asterisk in this document are substances to which both remarks * and ** apply.

For all substances with a single asterisk, *, you are advised to contact your supplier before carrying out any specific migration tests to verify the concentration of the substance within this Product.

EXCP[1]: If it is found that carrying out the tests under the contact conditions specified in Table 3 causes physical or other changes in the test specimen which do not occur under worst foreseeable conditions of use of the material or article under examination, the migration tests shall be carried out under the worst foreseeable conditions of use in which these physical or other changes do not take place.

EXCP[2]: If it is found that carrying out the tests under the combination of contact conditions specified in Tables 1 and 2 causes physical or other changes in the test specimen which do not occur under worst foreseeable conditions of use of the material or article under examination, the migration tests shall be carried out under the worst foreseeable conditions of use in which these physical or other changes do not take place.

Remi de Olde



HALOPACK N.V.

Disclaimer

The information included in this document is based on the present state of our knowledge and is valid from the stated issue date until this document is superseded. Because of possible changes in the underlying legislation and regulations, as well as possible changes in this Product, we cannot guarantee that the status of this document will remain unchanged. It will be renewed in all cases where the previous conformity is no longer ensured.