



Aksakovo, Bulgaria



PLASTCHIM-T

YOUR RELIABLE PARTNER IN THE WORLD OF PACKAGES



Devnya, Bulgaria



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PEONEER
Innovative eco-friendly film

BOPE

A Breakthrough Technology
in Flexible Packaging

BOPP COEX TRANSPARENT

Standard

FXC
FXCB
FXCL
FXCU
FXS
FXCFM

Low Sealable Temperature

FXCLS
FXCULST

Tobacco

SHTE
KXT
SHTA
SHT

Low Sealable Temperature

LST

Coex Antifog

FXCAF (5-layer)

BOPP METALLIZED FILMS

Standard Barrier

FXCM
FXCMB
FXPM

High Barrier

FXCHM

Low Sealable Temperature

FXCMLS
FXCMULS

High Barrier

FXCHMULS

BOPP PLAIN TRANSPARENT

Adhesive

FXA
FXAA
FXAAB
FXAS

Lamination/Flowers

FXPF
FXPFB
FXPA
FXPU

Labels

FXPLA
FXPLF

Base for MET

FXPFM

Cold seal

FXPR

BOPP WHITE VOIDED

Standard Seal

FXCWP

Low Sealable Temperature

FXCWPLS
FXWPUS

Labels

FXWD
FXWL

Solid white Standard Seal

FXCW

Low Sealable Temperature

FXCWLS

BOPP MAT

FXCMT
FXCMTS
FXPMT
FXPMTS
IMATT

CPP COEX

CPP COEX TRANSPARENT Standard seal

PLC
PLCB
PLCBZ

Low Sealable Temperature
PLCLS
Deep freezing
PLCDF

CPP MET

MET
PLCM

Low Sealable Temperature
PLCMLS

Company Profile



PLASTCHIM-T
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Plastchim-T is a leading European producer of flexible packaging films with the latest and advanced know-how and technology (the average age of our lines is just 5 ½ years and improving).

We have broadened our films portfolio with metalized and transparent films, specialty films, 5-layer films, antifog, and others.

Founded in 1967 | Family owned | Three production facilities

Aksakovo & Devnya plants – Production of flexible film

Tervel plant – Production of flexible packaging, FIBC bags

Aksakovo

Devnya

Tervel

Vehicle fleet of 32 trucks of the latest generation

We are 1000+ successful people who have built one of the largest production companies of polypropylene film in Europe.

In less than 10 years we have doubled our production capacity and financial results. We have the ambition to become a world leader in the production of flexible, recyclable packaging.

Plastchim-T has grown steadily, investing in the most advanced technology on the market.

2010 – 6.6 m BOPP line 18 000 TPA /in 2019 upgraded to 5-layers/

2012 – 2.45 m CPP line 6 000 TPA

2014 – 8.2 m line 32 000 TPA

2017 – 2.45 m second CPP line 6 000 TPA

2017 – Metalizer Applied TOP MET 2450 mm width

2018 – 10.4 m 65 000 TPA

2021 – Metalizer Nordmeccanica Powermet 29 F, 2900 mm width

2022 – 6.6 m Hybrid BOPE/BOPP line 27 000 TPA – first in the world

73 500 tons sold in 2018 | **97 000 tons** sold in 2021 | **120 000 tons** prevision 2022



Plastchim-T will continue its investment policy, aiming to become one of the leading polyolefin films suppliers in Europe.

Today Plastchim-T's technological park has more than 80% of utilization, very efficient production, and electricity consumption – less than 0.835 MWh / t, which is among the lowest in the business. The latest additions to our technological park are the first in the world Hybrid BOPE and BOPP line from Brückner Maschinenbau and the Nordmeccanica Powermet 29 F.

The Hybrid line is 6.6 m wide, 5-layer, having capability to process from 15 to 50 my BOPE film in various recipes from LLDPE to HDPE to match the different requirements for food and non-food flexible packaging applications.

Nordmeccanica Powermet 29 F Metallizer can produce: High Barrier Metallized Film, Alox Film, Barrier Met Technology (Film-ALOX-MET)



Product range & capacity



PLASTCHIM-T
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BOPP films produced in:

AKSAKOVO, Bulgaria

Aksakovo Plant – 2 BOPP production lines
Annual Capacity – 50 000 MT

Aksakovo BOPE films
First Hybrid Line BOPE/BPP WW, 27000 MT
Startup 12.2021
Total capacity in Aksakovo 77000 MT

DEVNYA, Bulgaria

Devnya Plant – 1 BOPP Production line
Annual Capacity – 65 000 MT, 7800 kg/h,
the top in class WW
In operation since 03.2018

Metallization – 3 machine, 18000 MT
POWERMET 29F is the most advanced Metallizer

Devnya Plant – 2 CPP Production line
Annual Capacity – 12 000 MT
In operation since 2012 and 2017

CPP films produced in:

DEVNYA, Bulgaria

Devnya Plant – 2 CPP Production line
Annual Capacity – 12 000 MT
In operation since 2012 and 2017



Certificates

ISO 9001:2015
ISO 14001:2015
ISO 50001:2018
ISO 22000:2018

Sustainability

Plastchim-T embraces the sustainability challenge towards a circular economy by collaboratively working with leading brands in the industry to offer the best solutions possible to its customers. We believe that the environmental impact of our company starts with what we produce, and we have built the PEoneer® project on the aspects of Sustainability, Economics, and Technical properties.

PEONEER – Plastchim-T's BOPE film grade

- 100% PE
- Produced in more than 5 different grades
- Substitute to standard polymer films used
- Circular Economy
- Recyclability
- Mono-material structure solution



PEONEER
Innovative eco-friendly film

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BOPP COEX TRANSPARENT

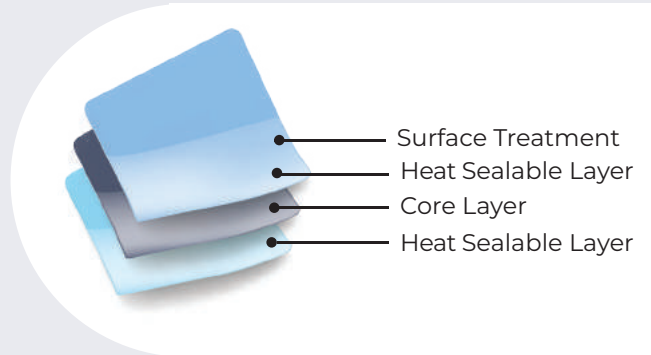
FILM TECHNICAL DATA

● FXC

Standard

FXC is coextruded, transparent BOPP film, heat sealable, suitable for food packaging and goods with general use. One side corona treated.

| Thickness (µm) | Density (g/m ³) | Yield (m ² /kg) |
|----------------|-----------------------------|----------------------------|
| 15 | 0.91 g/cm ³ | 73.5 |
| 17 | | 69.4 |
| 18 | | 61 |
| 20 | | 54.9 |
| 25 | | 44 |
| 28 | | 39.3 |
| 30 | | 36.6 |
| 35 | | 31.4 |
| 38 | | 28.9 |
| 40 | | 27.4 |
| 48 | | 22.9 |
| 50 | | 22 |



Applications

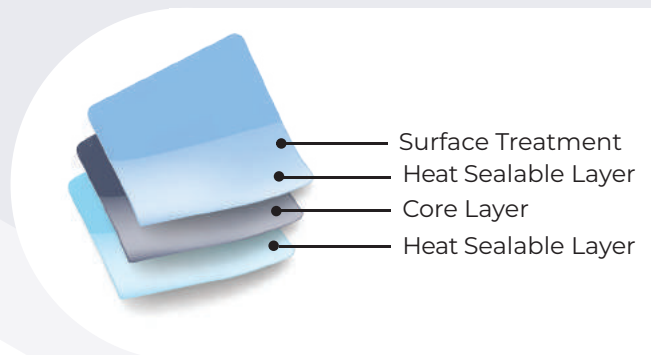
- General purpose packaging
- Lamination
- High quality rotogravure and flexo printing

● FXCB

Standard

FXCB is coextruded BOPP film, heat sealable, suitable for food packaging and goods with general use. Corona treatment on both sides.

| Thickness (µm) | Density (g/m ³) | Yield (m ² /kg) |
|----------------|-----------------------------|----------------------------|
| 20 | 0.91 g/cm ³ | 54.9 |
| 25 | | 43.9 |
| 30 | | 36.6 |
| 40 | | 27.5 |



Applications

- General purpose packaging
- Lamination
- High quality rotogravure and flexo printing



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BOPP COEX TRANSPARENT

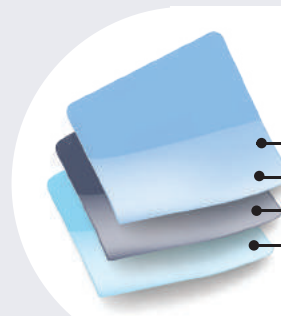
FILM TECHNICAL DATA

● FXCL

Standard

FXCL is coextruded BOPP film, heat sealable. The film is suitable for high-speed packing machines due to its low coefficient of friction. One side corona treated.

| Thickness (µm) | Density (g/m ³) | Yield (m ² /kg) |
|----------------|-----------------------------|----------------------------|
| 15 | 0.91 g/cm ³ | 73 |
| 18 | | 61 |
| 20 | | 54.9 |
| 25 | | 44 |
| 30 | | 36.6 |
| 40 | | 27.4 |
| 48 | | 22.9 |



- Surface Treatment
- Modified Skin Layer
- Core Layer
- Modified Skin Layer

Applications

- General purpose packaging
- High speed packaging HFFS & VFFS
- High quality rotogravure and flexo printing

● FXCU

Standard

FXCU is coextruded BOPP film, heat sealable, non-treated. The films is suitable for food packaging and goods with general use.

| Thickness (µm) | Density (g/m ³) | Yield (m ² /kg) |
|----------------|-----------------------------|----------------------------|
| 15 | 0.91 g/cm ³ | 73.5 |
| 17 | | 69.4 |
| 18 | | 61 |
| 20 | | 54.9 |
| 25 | | 44 |
| 28 | | 39.3 |
| 30 | | 36.6 |
| 35 | | 31.4 |
| 38 | | 28.9 |
| 40 | | 27.4 |
| 48 | | 22.9 |
| 50 | | 22 |

- Heat Sealable Layer
- Core Layer
- Heat Sealable Layer

Applications

- General purpose packaging

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BOPP COEX TRANSPARENT

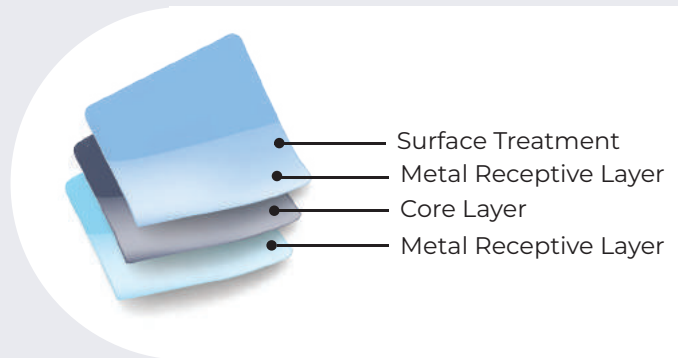
FILM TECHNICAL DATA

● FXCFM

Standard

FXCFM is coextruded BOPP film, heat sealable, one side corona treated. The film is suitable for metallization and has very good gloss

| Thickness (µm) | Density (g/m ³) | Yield (m ² /kg) |
|----------------|-----------------------------|----------------------------|
| 15 | 0.91 g/cm ³ | 73.5 |
| 18 | | 61 |
| 20 | | 54.9 |
| 25 | | 43.9 |
| 30 | | 36.6 |
| 35 | | 31.6 |



Applications

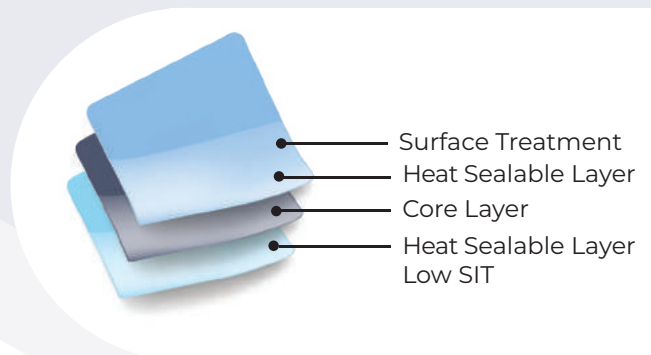
- Suitable for metallization
- Lamination

● FXCLS

Low Sealable Temperature

FXCLS is coextruded BOPP film, heat sealable. The film has very wide heat sealing range on the non-treated side for high speed packaging. One side corona treated.

| Thickness (µm) | Density (g/m ³) | Yield (m ² /kg) |
|----------------|-----------------------------|----------------------------|
| 20 | 0.91 g/cm ³ | 54.9 |
| 23 | | 47.8 |
| 25 | | 44 |
| 30 | | 36.6 |



Applications

- General purpose packaging
- High speed packaging HFFS & VFFS
- High quality rotogravure and flexo printing



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BOPP COEX TRANSPARENT

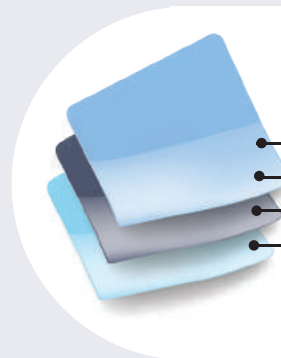
FILM TECHNICAL DATA

● FXCULST

Low Sealable Temperature

FXCULST is coextruded BOPP film, both side heat sealable. The film is with ultra low heat sealing temperature – 78°C on the untreated side for high speed packaging. One side corona treated.

| Thickness (µm) | Density (g/m ³) | Yield (m ² /kg) |
|----------------|-----------------------------|----------------------------|
| 20 | 0.91 g/cm ³ | 54.9 |
| 25 | | 44 |
| 30 | | 36.6 |



- Surface Treatment
- Heat Sealable Layer
- Core Layer
- Heat Sealable Layer ultra low SIT

Applications

- General purpose packaging
- Excellent gloss and transparency
- Excellent Hot Slip properties for High Speed
- High quality rotogravure and flexo printing

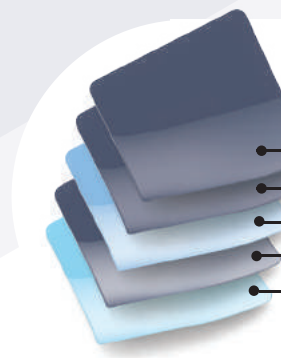
BOPP COEX TOBACCO

FILM TECHNICAL DATA

● KXT

KXT is 5-layer transparent BOPP film. Both side heat sealable. For packaging of food products, confectioneries, meat products, textiles. Excellent optical properties and slip properties. Improved barrier properties and anti-blocking properties.

| Thickness (µm) | Density (g/m ³) | Yield (m ² /kg) |
|----------------|-----------------------------|----------------------------|
| 20 | 0.91 g/cm ³ | 54.9 |



- PP Heat Sealable Layer
- PP Intermediate Layer
- PP Core Layer
- PP Intermediate Layer
- PP Heat Sealable Layer

Applications

- Intended for high slip performance
- Good barrier properties for moisture and odor

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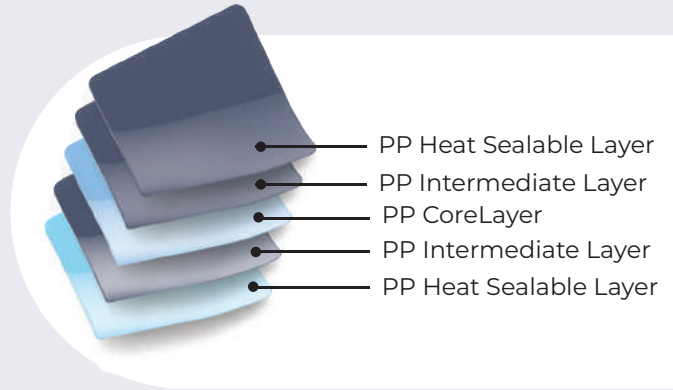
BOPP COEX TOBACCO

FILM TECHNICAL DATA

● SHTA

SHTA is 5-layer transparent uncoated BOPP film. Both side sealable, for tobacco products packaging. Excellent optical properties and asymmetric slip properties. Improved barrier properties and anti-blocking properties.

| Thickness (µm) | Density (g/m ³) | Yield (m ² /kg) |
|----------------|-----------------------------|----------------------------|
| 16 | 0.91 g/cm ³ | 67.6 |
| 18 | | 61 |
| 20 | | 54.9 |



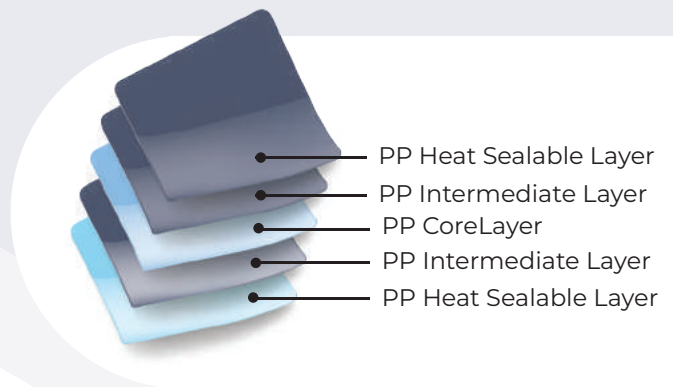
Applications

- Intended for tobacco products packaging – cigarette boxes, cartons bundle wrapping, cigars
- Asymmetric slip properties for tighter wrap of cigarette packs. Designed for high slip performance
- Good barrier properties for moisture and odor, resistant to solvent attack

● SHT

SHT is 5-layer transparent uncoated BOPP film. Both side sealable, for tobacco products packaging. Excellent optical properties and slip properties. Improved barrier properties and anti-blocking properties.

| Thickness (µm) | Density (g/m ³) | Yield (m ² /kg) |
|----------------|-----------------------------|----------------------------|
| 16 | 0.91 g/cm ³ | 67.6 |
| 18 | | 61 |
| 20 | | 54.9 |
| 25 | | 43.9 |



Applications

- Intended for tobacco products packaging – cigarette boxes, cartons bundle wrapping, cigars
- Good barrier properties for moisture and odor



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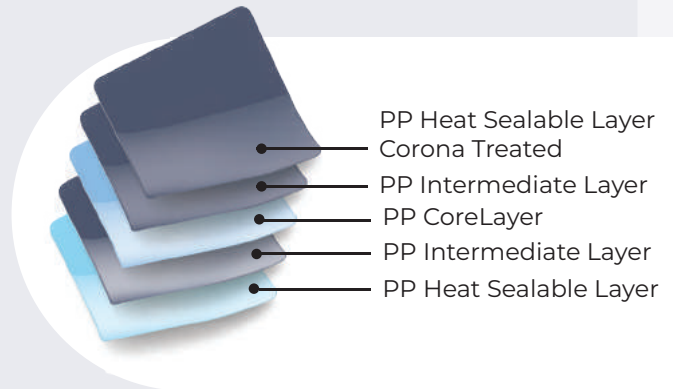
BOPP COEX TOBACCO

FILM TECHNICAL DATA

● **SHTE**

SHTE is 5-layer transparent uncoated BOPP film. Both side sealable, one side corona treated, for tobacco products packaging. Excellent optical properties and slip properties. Improved barrier properties and anti-blocking properties.

| Thickness (µm) | Density (g/m ³) | Yield (m ² /kg) |
|----------------|-----------------------------|----------------------------|
| 16 | 0.91 g/cm ³ | 67.6 |
| 18 | | 61 |
| 20 | | 54.9 |



Applications

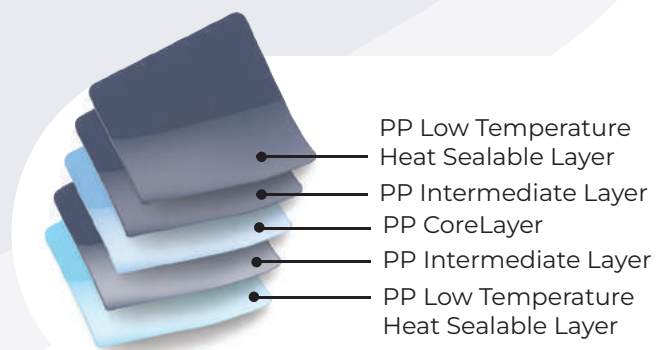
- Intended for tobacco products packaging – cigarette boxes, cartons bundle wrapping, cigars
- Excellent optical properties. Designed for high slip performance
- High quality rotogravure and flexo printing

● **LST**

Low Sealable Temperature

LST is 5 layer transparent uncoated BOPP film. Both side low temperature heat sealable, for tobacco products packaging. Excellent optical properties and slip properties. Improved barrier properties and anti-blocking properties.

| Thickness (µm) | Density (g/m ³) | Yield (m ² /kg) |
|----------------|-----------------------------|----------------------------|
| 20 | 0.91 g/cm ³ | 54.9 |
| 25 | | 43.9 |



Applications

- Intended for tobacco products packaging
- Designed for bundle wrapping without carton paper - “naked” wrapping
- Good barrier properties for moisture and odor

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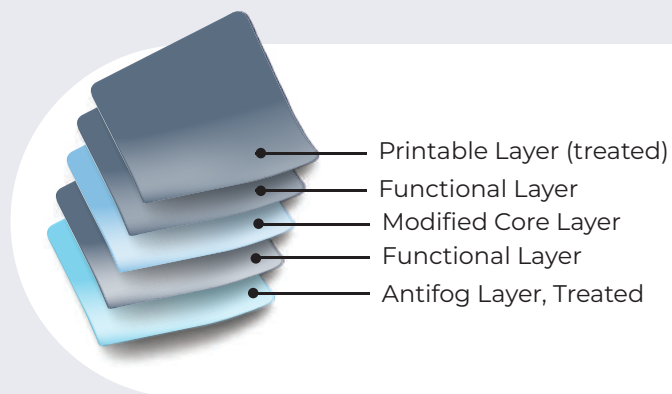
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BOPP COEX ANTIFOG

FILM TECHNICAL DATA

● FXCAF

FXCAF is 5-layer transparent uncoated BOPP film. Both side sealable, one side antifog properties other side suitable for printing. Both side corona treated.



| Thickness (µm) | Density (g/m ³) | Yield (m ² /kg) |
|----------------|-----------------------------|----------------------------|
| 20 | 0.91 g/cm ³ | 54.9 |
| 25 | | 44 |
| 30 | | 36.6 |
| 35 | | 31.4 |
| 40 | | 27.5 |

Applications

- Single web for fresh vegetables & salad packaging, Cold Antifog effect
- Lamination is not recommended
- Rotogravure and flexo printing

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BOPP METALLIZED FILMS

FILM TECHNICAL DATA

● FXCM

Standard Barrier

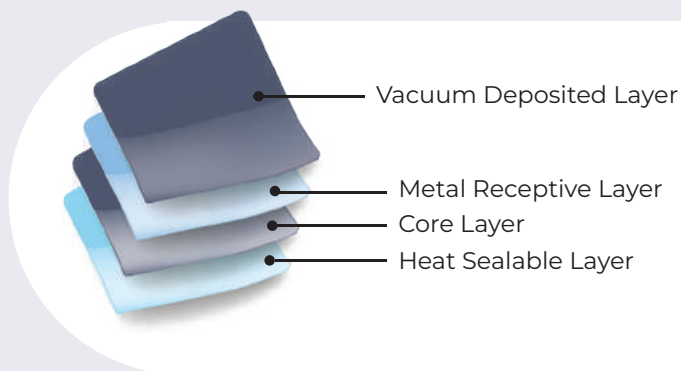
FXCM is coextruded metallized BOPP film, heat sealable on the non metallized side, with very good barrier properties (water and oxygen permeability).

Excellent metal adhesion.

| Thickness (µm) | COF | Gas barrier | Yield (m ² /kg) |
|----------------|--------|----------------|----------------------------|
| 15 | ~ 0.35 | ~ 80 ~ 0.45 | 73 |
| 18 | | | 61 |
| 20 | | | 54.9 |
| 25 | | | 44 |
| 30 | | | 36.6 |
| 35 | | | 31.4 |
| 40 | | | 36.4 |

Low thickness films are recommended for HFFS and VFFS packaging machines as inner sealable layer in laminated structure.

High thickness films could be used like one layer structure printed on metallized side.



Applications

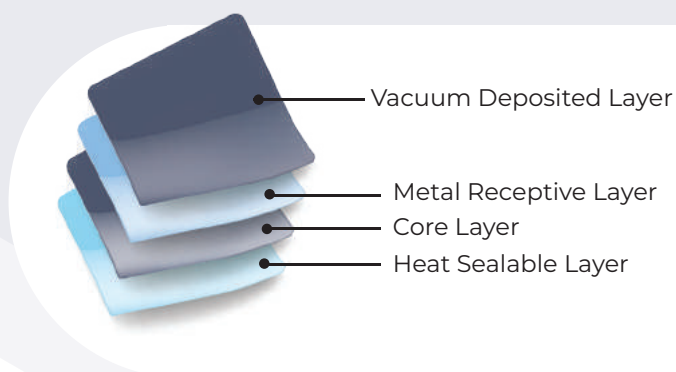
- Barrier packaging
- Suitable for print and lamination
- Single web application
- Suitable for cold seal application

● FXCMB

Standard Barrier

FXCMB is coextruded metallized BOPP film, heat sealable on the non metallized side, with very good barrier properties (water and oxygen permeability). Corona treated non metallized side intended for lamination and printing.

| Thickness (µm) | COF | Gas barrier | Yield (m ² /kg) |
|----------------|--------|----------------|----------------------------|
| 20 | ~ 0.35 | ~ 100 ~ 0.5 | 54.9 |



Applications

- Barrier packaging
- Printing and lamination on both sides
- Single web application
- Suitable for cold seal application



BOPP METALLIZED FILMS

FILM TECHNICAL DATA

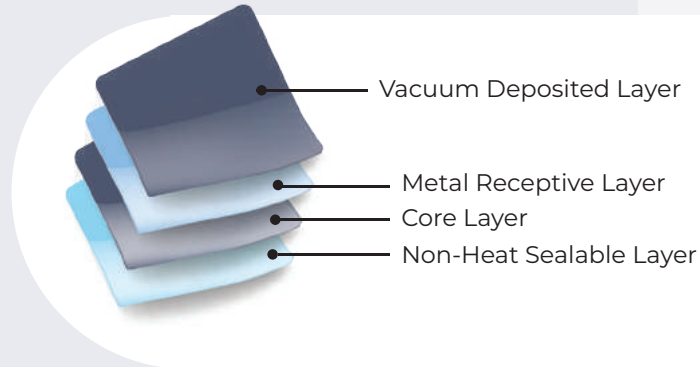
● **FXPM**

Standard Barrier

FXPM is metallized BOPP film, non-heat sealable, with very good barrier properties (water and oxygen permeability).

Excellent metal adhesion.

| Thickness (µm) | COF | Gas barrier | Yield (m ² /kg) |
|----------------|-------|----------------|----------------------------|
| 20 | ~ 0.4 | ~ 80 ~ 0.45 | 54.9 |
| 25 | | | 44 |
| 30 | | | 36.6 |
| 35 | | | 31.4 |
| 40 | | | 27.5 |



Applications

- Barrier application, lamination
- High quality rotogravure and flexo printing
- Decoration

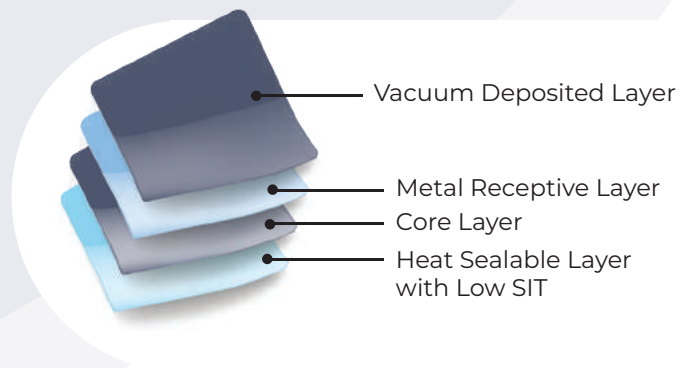
● **FXCMLS**

Low Sealable Temperature

FXCMLS is coextruded metallized BOPP film, heat sealable on the non metallized side, with very good barrier properties (water and oxygen permeability) very wide heat sealing range on the non-treated side for high speed packaging.

Excellent metal adhesion.

| Thickness (µm) | COF | Gas barrier | Yield (m ² /kg) |
|----------------|------|----------------|----------------------------|
| 18 | 0.35 | ~ 80 ~ 0.45 | 61 |
| 20 | | | 54.9 |
| 25 | | | 44 |
| 30 | | | 36.6 |



Applications

- Barrier packaging
- Suitable for print and lamination
- Single web application
- Suitable for cold seal application
- High speed packaging
HFFS and VFFS

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BOPP METALLIZED FILMS

FILM TECHNICAL DATA

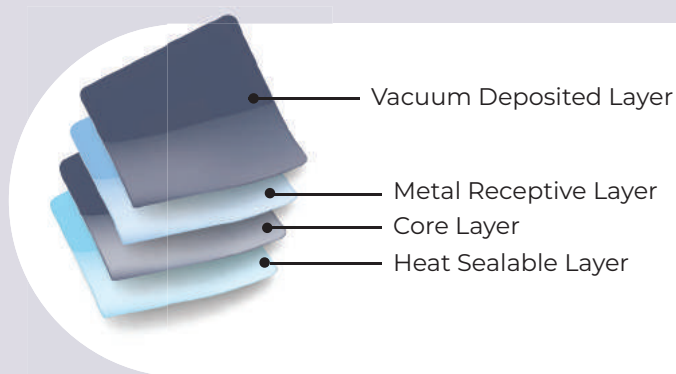
● FXCMULS

Low Sealable Temperature

FXCMULS is coextruded metallized BOPP film, ultra low heat sealable on the non metallized side (SIT 78°C). Good barrier properties (water and oxygen permeability).

Excellent metal adhesion.

| Thickness (µm) | COF | Gas barrier | Yield (m ² /kg) |
|----------------|------|----------------|----------------------------|
| 18 | 0.35 | ~ 60 ~ 0.35 | 61 |
| 20 | | | 54.9 |
| 25 | | | 44 |
| 30 | | | 36.6 |



Applications

- Barrier packaging
- Suitable for print and lamination
- Single web application
- Suitable for cold seal application
- High speed packaging
HFFS and VFFS

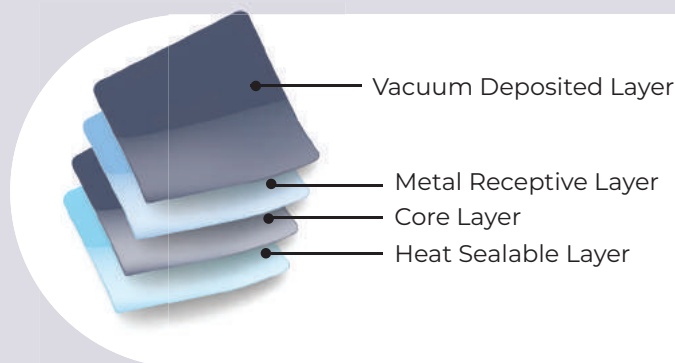
● FXCHM

High Barrier

FXCHM is coextruded metallized high barrier BOPP film, heat sealable on the non metallized side, with very good barrier properties (water and oxygen permeability).

Excellent metal adhesion.

| Thickness (µm) | COF | Gas barrier | Yield (m ² /kg) |
|----------------|------|----------------|----------------------------|
| 18 | 0.30 | ~ 30 ~ 0.25 | 61 |
| 20 | | | 54.9 |
| 25 | | | 44 |
| 30 | | | 36.6 |



Applications

- Barrier packaging
- Suitable for print and lamination
- Single web application
- Suitable for cold seal application

Low thickness films are recommended for HFFS and VFFS packaging machines as inner sealable layer in laminated structure. High thickness films could be used like one layer structure printed on metallized side.



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BOPP METALLIZED FILMS

FILM TECHNICAL DATA

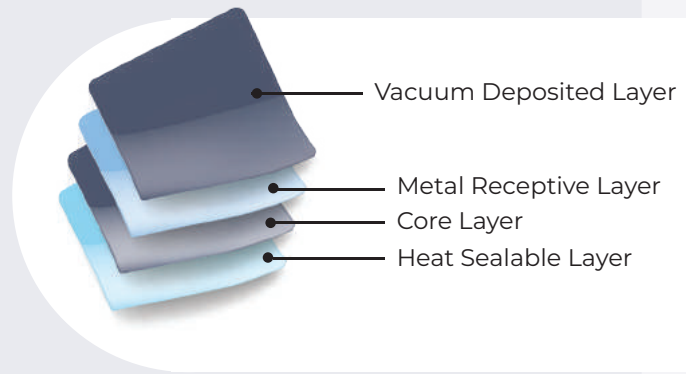
● FXCHMULS

High Barrier - LTS

FXCHMULS is coextruded metallized BOPP film, ultra low heat sealable on the non metallized side (SIT 78°C). Very good barrier properties (water and oxygen permeability).

Excellent metal adhesion

| Thickness (µm) | COF | Gas barrier | Yield (m ² /kg) |
|----------------|------|----------------|----------------------------|
| 20 | 0.30 | ~ 30 ~ 0.25 | 54.9 |



Recommended for high speed HFFS packaging machines as inner sealable layer in laminated structure

Applications

- High speed heat seal applications, SIT 78°C
- Barrier packaging
- Suitable for print and lamination
- The sealant layer is not suitable for cold seal adhesives
- Improved hot slip properties on the non-metallized side

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BOPP PLAIN TRANSPARENT

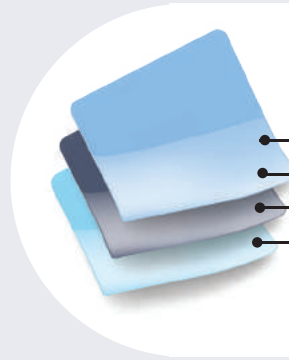
FILM TECHNICAL DATA

● FXA

Adhesive

FXA is BOPP film, non-heat sealable, one side flame treated with outstanding transparency, high tensile strength, and low elongation. Designed for adhesive tapes production.

| Thickness (µm) | Density (g/m ³) | Yield (m ² /kg) |
|----------------|-----------------------------|----------------------------|
| 23 | 0.91 g/cm ³ | 48.5 |
| 24 | | 45.8 |
| 25 | | 44 |
| 27 | | 40.8 |
| 28 | | 39.2 |
| 30 | | 36.6 |
| 32 | | 34.4 |
| 35 | | 31.3 |



- Surface Treatment
- Non-Heat Sealable Layer
- Core Layer
- Non-Heat Sealable Layer

Applications

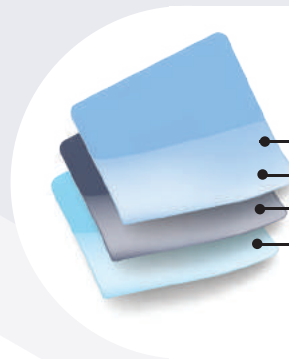
- Adhesive tapes
- High quality rotogravure and flexo printing

● FXAA

Adhesive

FXAA is BOPP film, non-heat sealable, one side flame treated with outstanding transparency, high tensile strength, and low elongation. Designed particularly for acrylic adhesive tapes and no noise tape production.

| Thickness (µm) | Density (g/m ³) | Yield (m ² /kg) |
|----------------|-----------------------------|----------------------------|
| 23 | 0.91 g/cm ³ | 48.5 |
| 24 | | 45.8 |
| 25 | | 44 |
| 27 | | 40.8 |
| 28 | | 39.2 |
| 30 | | 36.6 |
| 32 | | 34.4 |



- Surface Treatment
- Non-Heat Sealable Layer
- Core Layer
- Non-Heat Sealable Layer

Applications

- Adhesive tapes
- Lamination



BOPP PLAIN TRANSPARENT

FILM TECHNICAL DATA

● **FXAAB**

Adhesive

FXAAB is BOPP film, non-heat sealable, one side flame treated, other side corona treated, with outstanding transparency, high tensile strength, and low elongation. Designed particularly for adhesive tapes production.

| Thickness (µm) | Density (g/m ³) | Yield (m ² /kg) |
|----------------|-----------------------------|----------------------------|
| 23 | 0.91 g/cm ³ | 48.5 |
| 24 | | 45.8 |
| 25 | | 44 |
| 27 | | 40.8 |
| 28 | | 39.2 |
| 30 | | 36.6 |
| 32 | | 34.4 |
| 40 | | 27.8 |



- Corona Treatment
- Non-Heat Sealable Layer
- Core Layer
- Non-Heat Sealable Layer
- Flame Treatment

Applications

- Adhesive tapes
- Lamination

● **FXAS**

Adhesive

FXAS is BOPP film, non-heat sealable, one side flame treated with outstanding transparency, high tensile strength, and low elongation. Designed for adhesive tapes production. Greater adhesive anchorage and adhesive resistance to the support.

| Thickness (µm) | Density (g/m ³) | Yield (m ² /kg) |
|----------------|-----------------------------|----------------------------|
| 25 | 0.91 g/cm ³ | 44 |
| 30 | | 36.6 |



- Surface Treatment
- Non-Heat Sealable Layer
- Core Layer
- Non-Heat Sealable Layer

Applications

- Adhesive tapes
- High quality rotogravure and flexo printing

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BOPP PLAIN TRANSPARENT

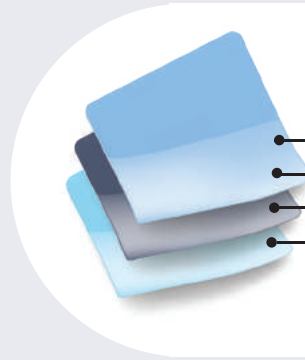
FILM TECHNICAL DATA

● FXPF

Lamination / Flowers

FXPF is coextruded BOPP film with outstanding transparency and brilliance. The film is non-heat sealable, one side flame treated, with very good tensile strength and low elongation.

| Thickness (µm) | Density (g/m ³) | Yield (m ² /kg) |
|----------------|-----------------------------|----------------------------|
| 15 | 0.91 g/cm ³ | 73.5 |
| 20 | | 54.9 |
| 22 | | 49.9 |
| 24 | | 45.8 |
| 25 | | 44 |
| 28 | | 39.3 |
| 30 | | 36.6 |
| 33 | | 33.3 |
| 35 | | 31.4 |
| 38 | | 28.9 |
| 40 | | 27.4 |



- Surface Treatment
- Non-Heat Sealable Layer
- Core Layer
- Non-Heat Sealable Layer

Applications

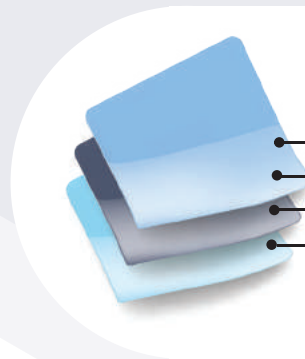
- Flowers wrapping
- Lamination and photo albums
- High quality rotogravure and flexo printing

● FXPFB

Lamination / Flowers

FXPFB is coextruded BOPP film with outstanding transparency and brilliance. The film is non-heat sealable, one side flame treated, other side corona treated, with very good tensile strength and low elongation. Suitable for adhesive tapes production.

| Thickness (µm) | Density (g/m ³) | Yield (m ² /kg) |
|----------------|-----------------------------|----------------------------|
| 20 | 0.91 g/cm ³ | 54.9 |
| 22 | | 49.9 |
| 24 | | 45.8 |
| 25 | | 44 |
| 28 | | 39.3 |
| 30 | | 36.6 |
| 35 | | 31.4 |



- High Energy Surface Treatment
- Non-Heat Sealable Layer
- Core Layer
- Non-Heat Sealable Layer

Applications

- Adhesive tapes
- Lamination
- High quality rotogravure and flexo printing



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BOPP PLAIN TRANSPARENT

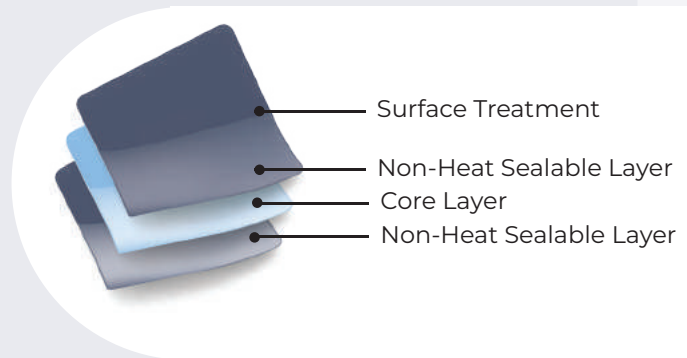
FILM TECHNICAL DATA

● FXPA

Lamination / Flowers

FXPA is BOPP film with outstanding transparency and brilliance, non-heat sealable, one side corona treated. The film is suitable for high quality printing and lamination.

| Thickness (µm) | Density (g/m ³) | Yield (m ² /kg) |
|----------------|-----------------------------|----------------------------|
| 20 | 0.91 g/cm ³ | 54.9 |
| 25 | | 44 |
| 30 | | 36.6 |
| 35 | | 31.4 |
| 38 | | 28.9 |
| 40 | | 27.4 |



Applications

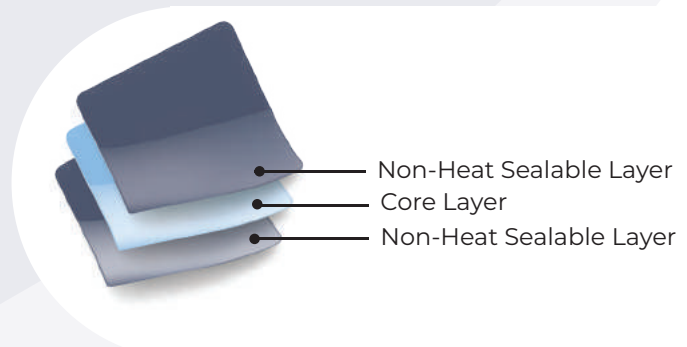
- Lamination
- High quality rotogravure and flexo printing

● FXPU

Lamination / Flowers

FXPU is BOPP film, non-heat sealable, non-treated, with outstanding transparency and brilliance. Suitable for flowers wrapping, gifts, photo albums and other goods with general use.

| Thickness (µm) | Density (g/m ³) | Yield (m ² /kg) |
|----------------|-----------------------------|----------------------------|
| 19 | 0.91 g/cm ³ | 57.8 |
| 20 | | 54.9 |
| 24 | | 45.6 |
| 25 | | 44 |
| 29 | | 37.9 |
| 30 | | 36.6 |
| 34 | | 32.3 |
| 35 | | 31.4 |
| 38 | | 28.9 |
| 40 | | 27.4 |



Applications

- Flowers wrapping
- Lamination and photo albums

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BOPP PLAIN TRANSPARENT

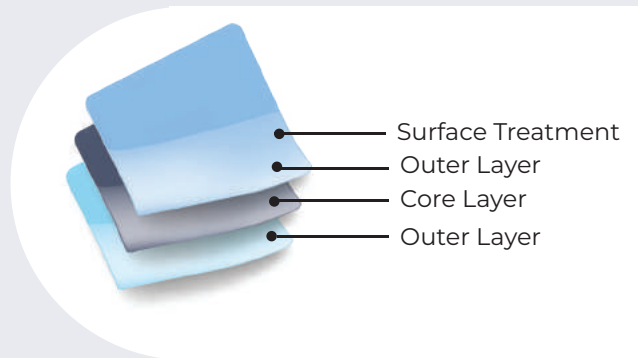
FILM TECHNICAL DATA

● FXPLA

Labels

FXPLA is BOPP film with outstanding transparency and brilliance, non-heat sealable, one side corona treated. The film is suitable for printing and wraparound labels.

| Thickness (µm) | Density (g/m ³) | Yield (m ² /kg) |
|----------------|-----------------------------|----------------------------|
| 20 | 0.91 g/cm ³ | 54.9 |
| 25 | | 44 |
| 30 | | 36.6 |
| 35 | | 31.4 |
| 38 | | 28.9 |
| 40 | | 27.4 |



Applications

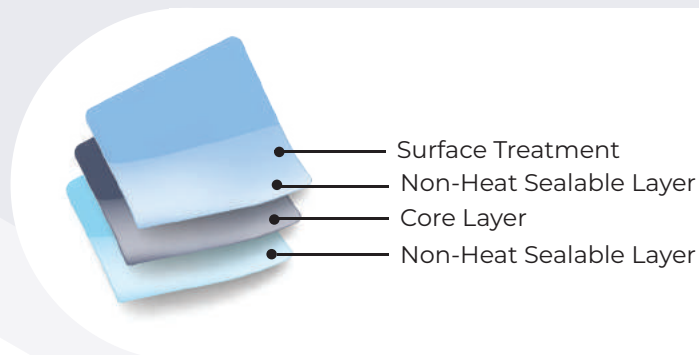
- Wraparound labels
- High quality rotogravure and flexo printing

● FXPLF

Labels

FXPLF is BOPP film with outstanding transparency and brilliance, non-heat sealable, one side high energy flame treated. The film has high surface tension, excellent ink adhesion, high tensile strength, and low elongation. The film is especially designed for high quality label printing.

| Thickness (µm) | Density (g/m ³) | Yield (m ² /kg) |
|----------------|-----------------------------|----------------------------|
| 20 | 0.91 g/cm ³ | 54.9 |
| 25 | | 44.2 |
| 30 | | 36.6 |
| 35 | | 31.4 |
| 38 | | 29.2 |
| 40 | | 27.8 |



Applications

- Wraparound labels
- High quality rotogravure and flexo printing



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BOPP PLAIN TRANSPARENT

FILM TECHNICAL DATA

● FXPFM

Base for Met

FXPFM is non-heat sealable BOPP film, one site corona treated. The film is suitable for metallization and has very good gloss.

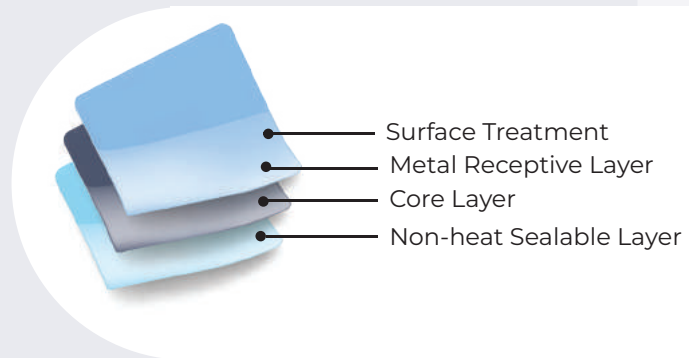
| Thickness (µm) | Density (g/m ³) | Yield (m ² /kg) |
|----------------|-----------------------------|----------------------------|
| 20 | 0.91 g/cm ³ | 54.9 |
| 30 | | 36.6 |
| 33 | | 33.3 |
| 35 | | 31.6 |
| 38 | | 28.9 |
| 40 | | 27.5 |

● FXPR

Cold Seal

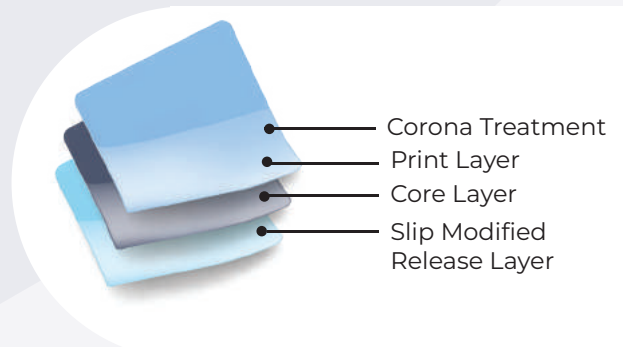
FXPR is not heat-sealable film with premium release properties, outstanding cold adhesion on the treated layer, very good machinability on the release/slip surface. Excellent printability, transparency, and gloss. Excellent lamination bond strength. Consistently low COF and slip properties.

| Thickness (µm) | Density (g/m ³) | Yield (m ² /kg) |
|----------------|-----------------------------|----------------------------|
| 20 | 0.91 g/cm ³ | 54.9 |
| 30 | | 36.6 |



Applications

- Suitable for metallization
- High quality rotogravure and flexo printing
- Lamination



Applications

- Cold seal release performance with wide range of adhesives
- As "Slip" film application

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BOPP WHITE VOIDED

FILM TECHNICAL DATA

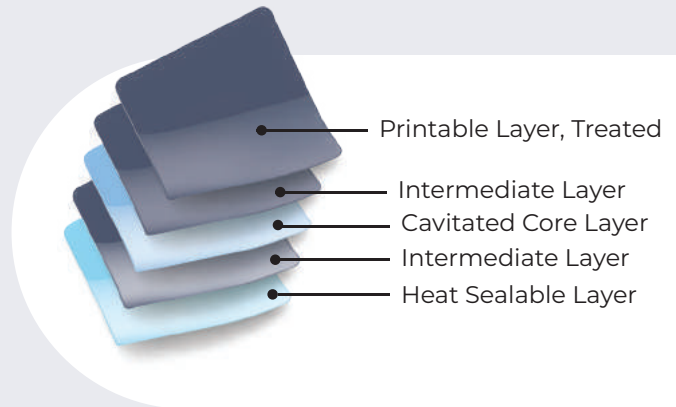
● FXCWP

Standard Barrier

FXCWP is 5-layer white pearlized BOPP film with high yield and low density (0.65 g/cm^3), both sides heat sealable, one side corona treated.

Excellent metal adhesion.

| Thickness (μm) | Density (g/m^3) | Yield (m^2/kg) |
|-----------------------------|----------------------------|----------------------------------|
| 30 | 0.65 g/cm^3 | 51.3 |
| 35 | | 43.9 |
| 38 | | 40.5 |
| 40 | | 38.5 |
| 50 | | 30.8 |



Applications

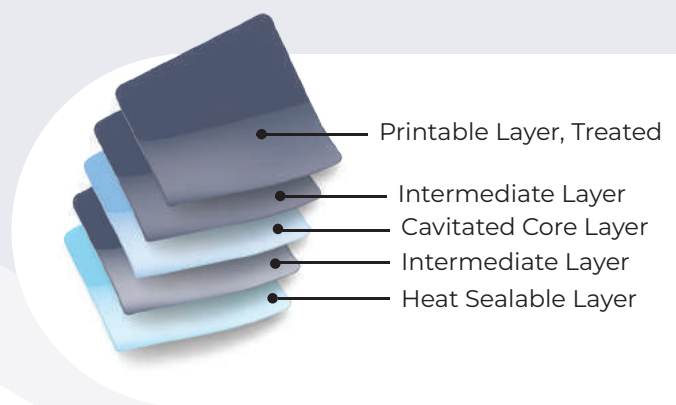
- General purpose packaging
- Ice cream and chocolate packaging
- High quality rotogravure and flexo printing

● FXCWPLS

Low Sealable Temperature

FXCWPLS is 5-layer white pearlized BOPP film with high yield and low density (0.8 g/cm^3), both sides heat sealable, one side corona treated. Designed with very wide heat-sealing range on the non-treated side, starts from 90°C .

| Thickness (μm) | Density (g/m^3) | Yield (m^2/kg) |
|-----------------------------|----------------------------|----------------------------------|
| 25 | 0.8 g/cm^3 | 50 |
| 30 | | 41.6 |



Applications

- General purpose packaging
- Ice cream and chocolate packaging
- High quality rotogravure and flexo printing



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BOPP WHITE VOIDED

FILM TECHNICAL DATA

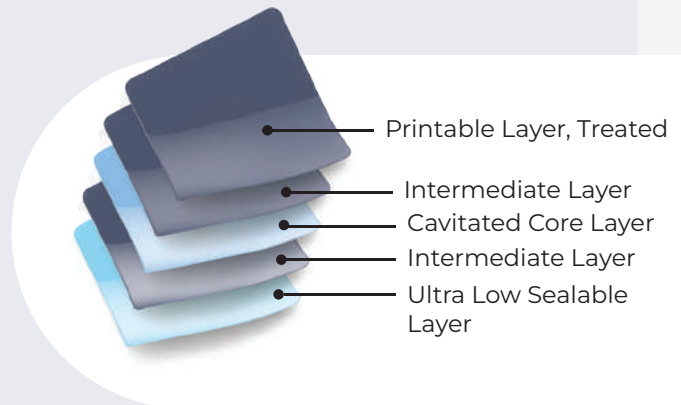
● FXWPUS

Low Sealable Temperature

FXWPUS is 5-layer white pearlized BOPP film with ultra-low heat-sealing properties 78°C on untreated side and low density (0.74 g/cm³).

One side corona treated.

| Thickness (µm) | Density (g/m ³) | Yield (m ² /kg) |
|----------------|-----------------------------|----------------------------|
| 28 | 0.74 g/cm ³ | 48.3 |
| 30 | | 45 |
| 35 | | 38.6 |
| 40 | | 33.8 |
| 45 | | 30 |



Applications

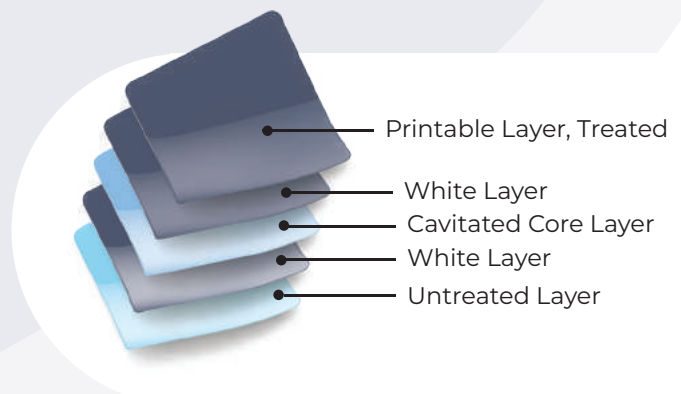
- High speed HFFS packaging machines
- Monoweb or laminated structure
- High quality rotogravure and flexo printing

● FXWD

Labels

FXWD is 5-layer high gloss, white cavitated BOPP film, with low density (0.62 g/cm³), one side corona treated. Designed for WAL (wrap around label) application.

| Thickness (µm) | Density (g/m ³) | Yield (m ² /kg) |
|----------------|-----------------------------|----------------------------|
| 33 | 0.62 g/cm ³ | 48.8 |
| 38 | | 42.4 |
| 47 | | 34.4 |



Applications

- Wrap around label
- High quality rotogravure and flexo printing (UV & conventional)

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BOPP WHITE VOIDED

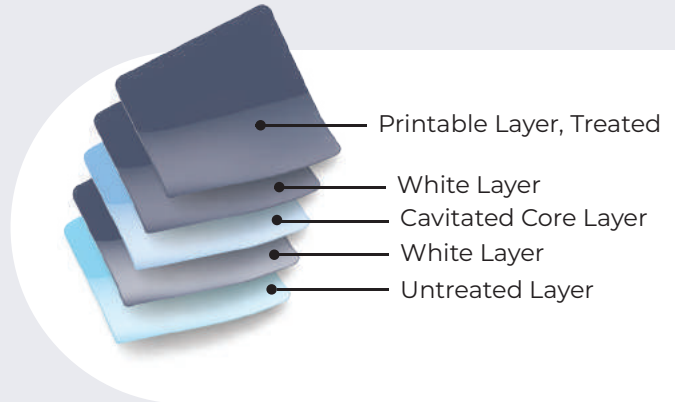
FILM TECHNICAL DATA

● FXWL

Labels

FXWL is 5-layer high gloss, white cavitated BOPP film, with low density (0.65 g/cm^3), one side corona treated. Designed for WAL (wrap around label) application.

| Thickness (μm) | Density (g/m^3) | Yield (m^2/kg) |
|-----------------------------|----------------------------|----------------------------------|
| 30 | 0.65 g/cm^3 | 51.3 |



Applications

- Wrap around label
- High quality rotogravure and flexo printing (UV & conventional)

Low thickness films are recommended for HFFS and VFFS packaging machines as inner sealable layer in laminated structure.

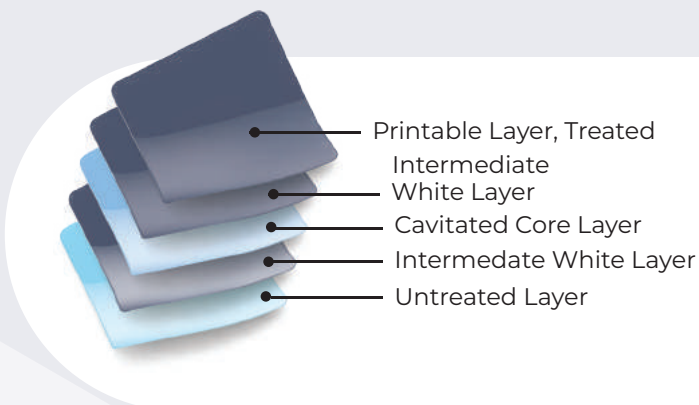
High thickness films could be used like one layer structure printed on metalized side.

● FXCW

Solid white Standard Seal

FXCW is 5-layer coextruded white BOPP film with high opacity, both sides heat sealable, one side corona treated. The white colour of the film is an excellent base and improves the print quality.

| Thickness (μm) | Density (g/m^3) | Yield (m^2/kg) |
|-----------------------------|----------------------------|----------------------------------|
| 15 | 0.94 g/cm^3 | 70.9 |
| 20 | | 53.2 |
| 25 | | 42.6 |
| 30 | | 35.5 |
| 35 | | 30.4 |
| 38 | | 28 |
| 40 | | 26.6 |



Applications

- General purpose packaging
- Lamination
- High quality rotogravure and flexo printing



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BOPP WHITE VOIDED

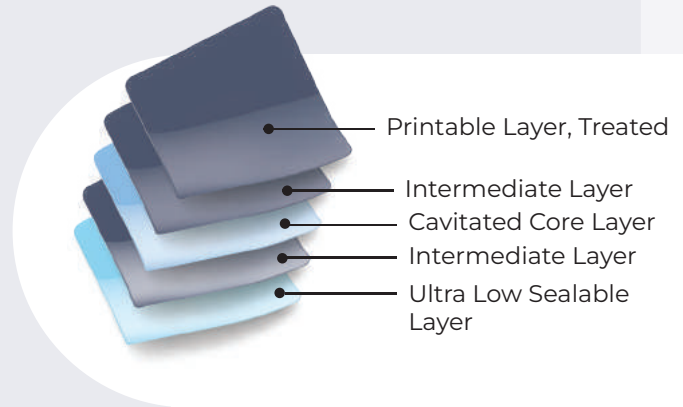
FILM TECHNICAL DATA

● FXCWLS

Solid white Standard Seal

FXCWLS is 5-layer coextruded white BOPP film with high opacity, both sides heat sealable, one side corona treated. The white colour is an excellent base and improves the print quality. Designed with very wide heat-sealing range on the non-treated side for high-speed packaging.

| Thickness (µm) | Density (g/m ³) | Yield (m ² /kg) |
|----------------|-----------------------------|----------------------------|
| 20 | 0.94 g/cm ³ | 53.2 |
| 25 | | 42.6 |
| 30 | | 35.5 |



Applications

- General purpose packaging
- High-speed packaging HFFS & VFFS
- High quality rotogravure and flexo printing

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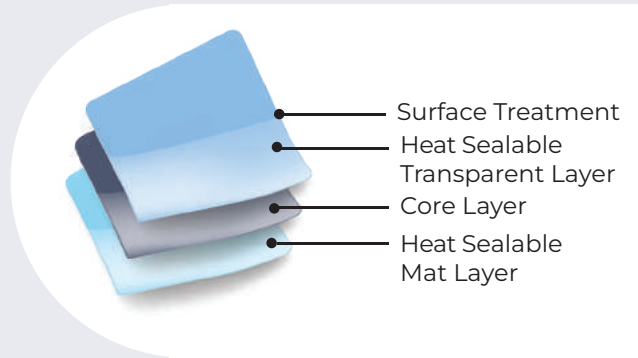
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BOPP MAT

FILM TECHNICAL DATA

● FXCMT

FXCMT is coextruded matt BOPP film that gives the final product a luxurious look and soft touch effect. Both sides heat sealable, one side matt, one-side corona treated.



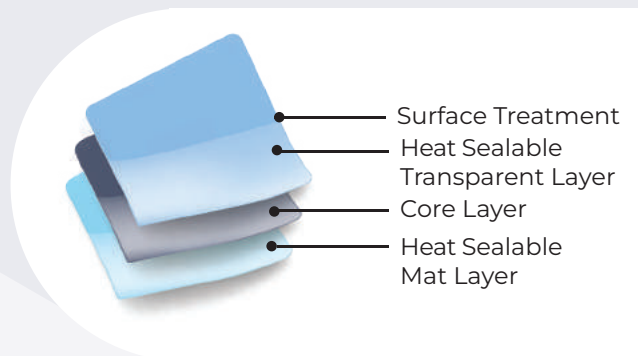
| Thickness (µm) | Density (g/m ³) | Yield (m ² /kg) |
|----------------|-----------------------------|----------------------------|
| 15 | 0.91 g/cm ³ | 75.8 |
| 18 | | 63.3 |
| 20 | | 56.8 |
| 25 | | 45.4 |
| 30 | | 37.8 |

Applications

- Different look of the products
- Lamination
- General purpose packaging
- High quality rotogravure & flexo printing

● FXCMTS

FXCMTS is coextruded matt BOPP film that gives the final product a luxurious look and soft touch effect. Both sides heat sealable, one side matt one-side corona treated.



| Thickness (µm) | Density (g/m ³) | Yield (m ² /kg) |
|----------------|-----------------------------|----------------------------|
| 18 | 0.91 g/cm ³ | 63.3 |
| 20 | | 56.8 |
| 25 | | 45.4 |
| 30 | | 37.8 |

Applications

- Different look of the products
- Lamination
- General purpose packaging
- High quality rotogravure & flexo printing



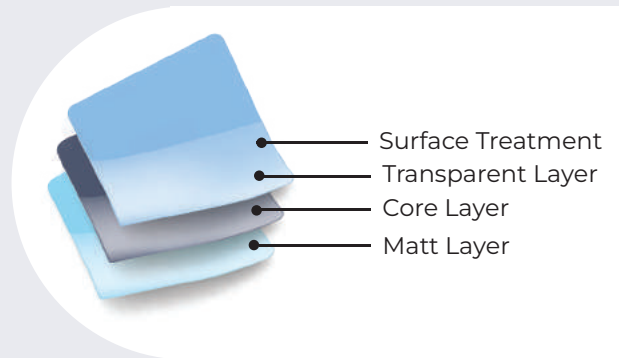
BOPP MAT

FILM TECHNICAL DATA

● **FXPMT**

FXPMT is coextruded matt BOPP film that gives the final product a luxurious look and soft touch effect. One side matt, one side corona treated.

| Thickness (µm) | Density (g/m ³) | Yield (m ² /kg) |
|----------------|-----------------------------|----------------------------|
| 18 | 0.91 g/cm ³ | 63.3 |
| 20 | | 56.8 |
| 25 | | 45.4 |
| 30 | | 37.8 |



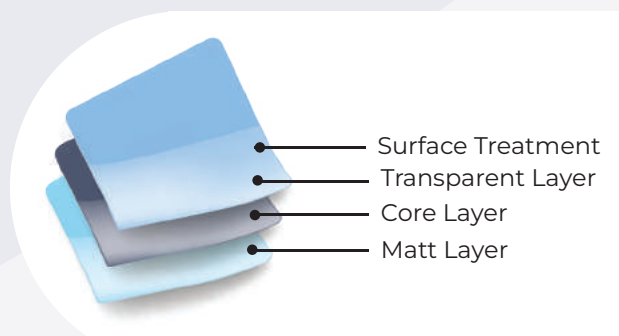
Applications

- Different look of the products
- Lamination
- General purpose packaging
- High quality rotogravure & flexo printing

● **FXPMTS**

FXPMTS is coextruded matt BOPP film that gives the final product a luxurious look and soft touch effect. One side matt, one-side corona treated.

| Thickness (µm) | Density (g/m ³) | Yield (m ² /kg) |
|----------------|-----------------------------|----------------------------|
| 18 | 0.91 g/cm ³ | 63.3 |
| 20 | | 56.8 |
| 25 | | 45.4 |
| 30 | | 37.8 |



Applications

- Different look of the products
- Lamination
- General purpose packaging
- High quality rotogravure & flexo printing

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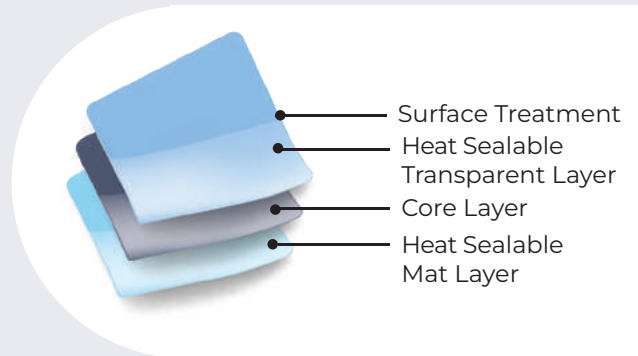
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BOPP MAT

FILM TECHNICAL DATA

● IMATT

IMATT is coextruded matt BOPP film, both side heat sealable, one side (Matt side) corona treated. The film gives the final product a luxurious look and soft touch effect.



| Thickness (µm) | Density (g/m ³) | Yield (m ² /kg) |
|----------------|-----------------------------|----------------------------|
| 15 | 0.91 g/cm ³ | 75.8 |
| 18 | | 63.3 |
| 20 | | 56.8 |
| 25 | | 45.4 |
| 30 | | 37.8 |

Applications

- General purpose packaging
- Envelope windows application
- Print and lamination
- Packing of various food products, confectioneries and textiles

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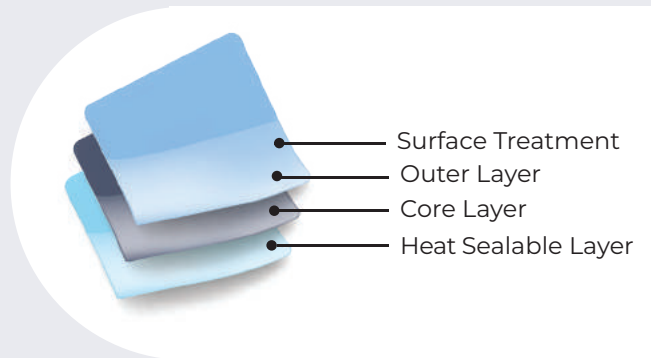
CPP COEX

FILM TECHNICAL DATA

● PLC

Standard Seal

PLC is coextruded cast polypropylene film, one side heat sealable, one side corona treated. The film is suitable for packing of food products and goods with general use. It is not recommended to be used for single layer printed packaging.



| Thickness (µm) | Density (g/m ³) | Yield (m ² /kg) |
|----------------|-----------------------------|----------------------------|
| 20 | 0.9 g/cm ³ | 55.6 |
| 25 | | 44.4 |
| 30 | | 37 |
| 35 | | 31.8 |
| 40 | | 27.8 |
| 50 | | 22.2 |
| 60 | | 18.5 |
| 65 | | 17.1 |
| 70 | | 15.9 |
| 80 | | 13.9 |

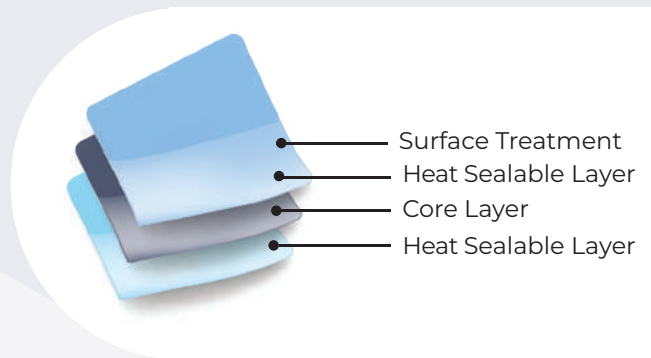
Applications

- Lamination
- General purpose packaging
- Suitable for rotogravure & flexo printing

● PLCB

Standard Seal

PLCB is coextruded cast polypropylene film, both sides heat sealable, one side corona treated. The film is suitable for packing of food products and goods with general use.



| Thickness (µm) | Density (g/m ³) | Yield (m ² /kg) |
|----------------|-----------------------------|----------------------------|
| 20 | 0.9 g/cm ³ | 55.6 |
| 23 | | 48.3 |
| 25 | | 44.4 |
| 28 | | 39.7 |
| 30 | | 37 |
| 35 | | 31.8 |
| 40 | | 27.8 |
| 50 | | 22.2 |
| 65 | | 17.1 |
| 70 | | 15.9 |
| 80 | | 13.9 |
| 90 | | 12.4 |

Applications

- Bread and bakery packaging
- Lamination or single ply
- High quality rotogravure & flexo printing



CPP COEX

FILM TECHNICAL DATA

● **PLCBZ**

Standard Seal

PLCBZ is coextruded cast polypropylene film, both sides heat sealable, one side corona treated. The film is suitable for packing of food products and goods with general use. Designed for winter conditions.

| Thickness (µm) | Density (g/m ³) | Yield (m ² /kg) |
|----------------|-----------------------------|----------------------------|
| 20 | 0.91 g/cm ³ | 55.5 |
| 22 | | 50.5 |
| 23 | | 48.3 |
| 25 | | 44.4 |
| 27 | | 41.2 |
| 28 | | 39.7 |
| 30 | | 37 |
| 35 | | 31.7 |
| 40 | | 27.8 |



- Surface Treatment
- Heat Sealable Layer
- Core Layer
- Heat Sealable Layer

Applications

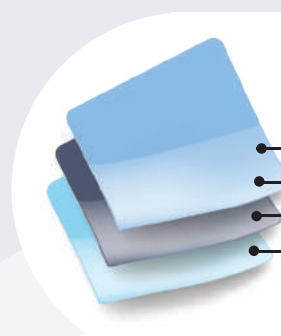
- Bread and bakery packaging
- Lamination or single ply
- High quality rotogravure & flexo printing

● **PLCLS**

Low Sealable Temperature

PLCLS is coextruded cast polypropylene film, both sides heat sealable with very wide heat-sealing range on the non-treated side for high-speed packaging, one side corona treated. The film is suitable for packing of food products and goods with general use.

| Thickness (µm) | Density (g/m ³) | Yield (m ² /kg) |
|----------------|-----------------------------|----------------------------|
| 20 | 0.91 g/cm ³ | 55.6 |
| 25 | | 44.4 |
| 30 | | 37 |
| 35 | | 31.8 |
| 40 | | 27.8 |
| 50 | | 22.2 |
| 60 | | 18.5 |
| 70 | | 15.9 |



- Surface Treatment
- Heat Sealable Layer
- Core Layer
- Heat Sealable Layer

Applications

- General purpose packaging
- High speed packaging HFFS & VFFS
- High quality rotogravure & flexo printing

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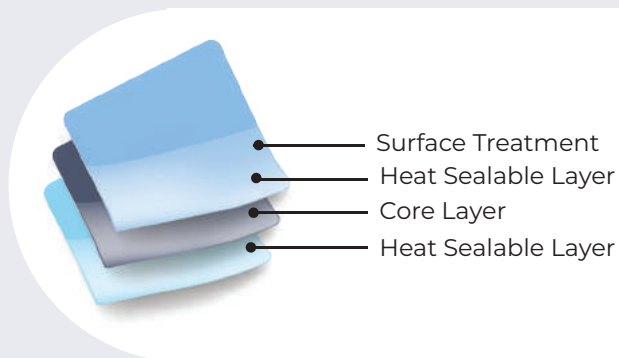
FILM TECHNICAL DATA

● PLCDF

Deep Freezing

PLCDF is coextruded cast polypropylene film, both sides heat sealable, one side corona treated. PLCDF is designed for packing bread and bakery pouches, and store in freezer at up to -25°C. The film has very good optical properties and has excellent tear resistance on low temperatures.

| Thickness (µm) | Density (g/cm ³) | Yield (m ² /kg) |
|----------------|------------------------------|----------------------------|
| 20 | 0.9 g/cm ³ | 55.6 |
| 25 | | 44.4 |
| 26 | | 42.7 |
| 30 | | 37 |
| 35 | | 31.8 |
| 40 | | 27.8 |
| 50 | | 22.2 |



Applications

- Deep freezing
- Bread and bakery packaging
- General packaging for cold climate
- High quality rotogravure & flexo printing



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in Flexible Packaging

CPP COEX MET

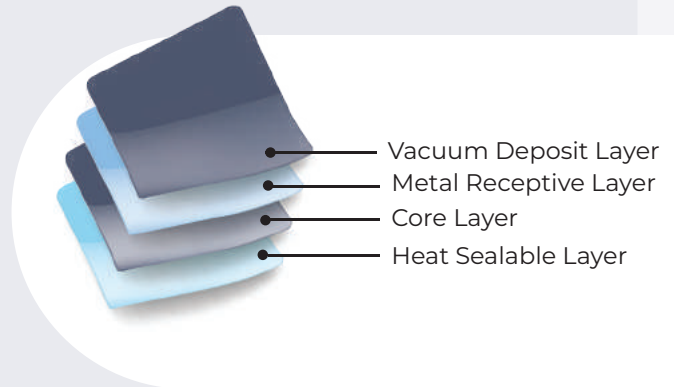
FILM TECHNICAL DATA

● **PLCM**

Standard Barrier

PLCM is coextruded metallized cast polypropylene film, heat sealable on the non-metallized side, with very good barrier properties (water and oxygen permeability).

| Thickness (µm) | Density (g/m ³) | Yield (m ² /kg) |
|----------------|-----------------------------|----------------------------|
| 20 | 0.9 g/cm ³ | 55.6 |
| 25 | | 44.4 |
| 30 | | 37 |
| 35 | | 31.8 |
| 40 | | 27.8 |



Applications

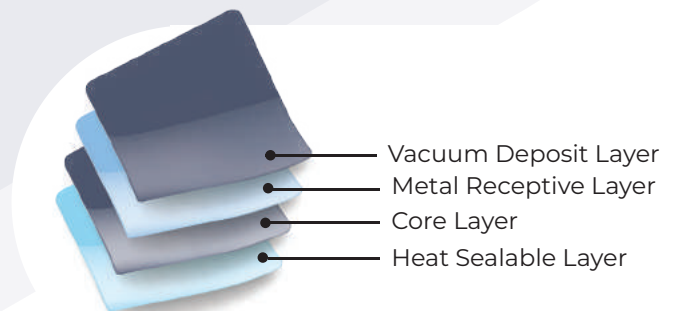
- Barrier packaging
- Suitable for print and lamination
- Excellent print receptivity on the metallized side

● **PLCMLS**

Low Sealable Temperature

PLCMLS is coextruded metallized cast polypropylene film, heat sealable on the non-metallized side, with very good barrier properties (water and oxygen permeability). Excellent metal adhesion. Designed with lower sealing temperature, SIT 105°C.

| Thickness (µm) | Density (g/m ³) | Yield (m ² /kg) |
|----------------|-----------------------------|----------------------------|
| 20 | 0.9 g/cm ³ | 55.6 |
| 25 | | 44.4 |
| 30 | | 37 |



Applications

- Barrier packaging
- Suitable for print and lamination
- Suitable for cold seal application

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