Taghleef Industries

Flexible Films

PRODUCT PORTFOLIO
EUROPE

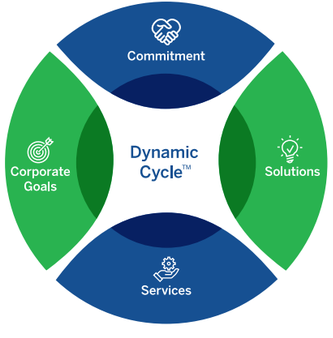
PRODUCT PORTFOLIO EUROPE

TRANSPARENT	MATT	SOLID WHITE	WHITE VOIDED	METALLIZED
TSS, TLS, TUL, TSH, TPE, TLF, TNS, THR, TTR, TNK, TPT, SFT	MUS, MSS, MHF, MMR, TPM	WSS, WLS	ERD, ELD, EXD, EXS, ESK	ZSS, ZES, ZUL, ZSY, ZSX, ZHB, ZLF, ZRD, ZLD

Please note that for certain items or thicknesses, Taghleef Industries may require deckle width optimization and/or a minimum production lot.

DYNAMIC CYCLE

Together we Innovate for Future Generations



Dynamic Cycle™ is Taghleef's set of initiatives aimed to address **Sustainability** issues within and for our stakeholders. It translates into strategic choices, advanced know-how, a focused investment strategy and the most compliant portfolio.

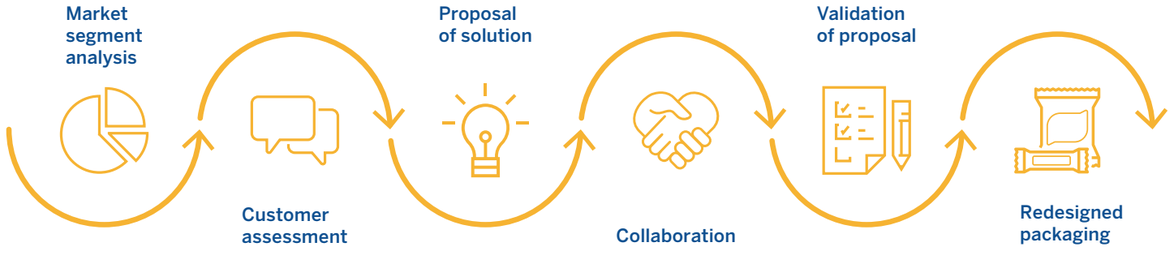
It is Taghleef's **trusted consulting voice** that interacts with all its partners to contribute to the quality of life of generations to come.

Dynamic Cycle™ is T**aghleef's holistic approach to Sustainability** that encompasses not only Taghleef's Solutions and Services, but also its Corporate Goals and Commitment towards Sustainability.

Dynamic Cycle™ Solutions offer our customers access to **a wide range of Recycle-Ready and Innovative film solutions**. This portfolio showcases Taghleef's PP-based film solutions for Flexible Packaging available in Europe, that are in line with main recycling guidelines and can help you design a Recycle-Ready product.

reDESIGN™

Make the switch from Traditional to Innovative & Recycle-Ready Packaging



reDESIGN™ is a tailor-fit service for our customers as part of Dynamic Cycle™ initiative. With reDESIGN™, Taghleef Industries leads the **switch from traditional packaging to high-performing solutions** that best meet customers' specific packaging requirements. Taghleef works closely with authorities, industry experts and certification bodies throughout the entire process to offer **Innovative and Recycle-Ready Solutions.**

Alternative Raw Materials Sources

Taghleef Industries' portfolio includes the use of innovative raw materials:

reLIFE™
BRINGING NEW LIFE TO MATERIALS

Made with recycled content, this portfolio includes:
- PCR Chemical Recycling (Food Contact Compliant, ISCC Plus Certified, Mass Balance Approach)
- PCR Mechanical Recycling (Non Food Contact Compliant)

b!oPP
BIOBASED POLYPROPYLENE FILMS

Flexible Films

Bio PP Films derive from renewable resources of vegetable origin and are compliant with ISCC Plus Certification (Mass Balance Approach). At their end of life, these films can be recycled in the existing PP or polyolefin recycling streams.

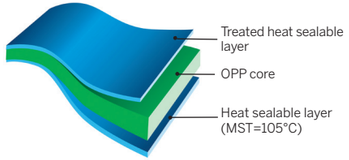
Phthalate-free Flexible films

Phthalates are not intentionally added to Ti's BoPP film formulation. However some of these compounds could be present due to the production process of the polymer. Taghleef can offer, upon request, BoPP films manufactured with selected raw materials based on phthalate-free catalyst system.

TRANSPARENT

TSS

BoPP transparent film, both sides heat sealable, treated

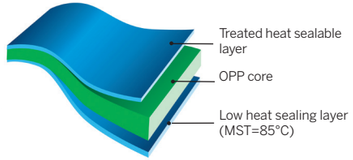


Nominal Thickness (µm)	Unit Weight (g/m^2)	Yield (m^2/kg)	Min. Sealing Temperature (°C)
12	10.9	91.6	
15	13.7	73.3	
18	16.4	61.0	
20	18.2	54.9	
25	22.8	44.0	105
30	27.3	36.6	
35	31.9	31.4	
40	36.4	27.5	
48	43.7	22.9	

TRANSPARENT

TLS

BoPP transparent film, one side very wide heat seal range, treated

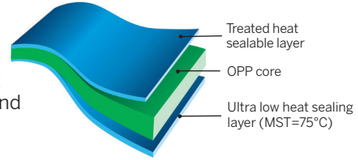


Nominal Thickness (µm)	Unit Weight (g/m^2)	Yield (m^2/kg)	Min. Sealing Temperature (°C)
20	18.2	54.9	
25	22.8	44.0	85
30	27.3	36.6	

TRANSPARENT

TUL

BoPP transparent film, one side ultra wide heat seal range, consistent and improved slip, treated

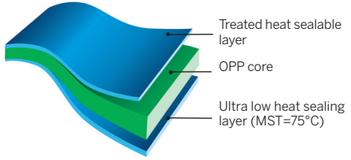


Nominal Thickness (µm)	Unit Weight (g/m^2)	Yield (m^2/kg)	Min. Sealing Temperature (°C)
20	18.2	54.9	
25	22.8	44.0	75
30	27.3	36.6	

TRANSPARENT

TSH

BoPP transparent film, both sides heat sealable, improved seal integrity, one side ultra wide heat seal range, treated

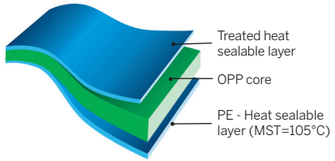


Nominal Thickness (µm)	Unit Weight (g/m^2)	Yield (m^2/kg)	Min. Sealing Temperature (°C)
20	18.2	54.9	75

TRANSPARENT

TPE

BoPP transparent film, one side sealable to PE, treated

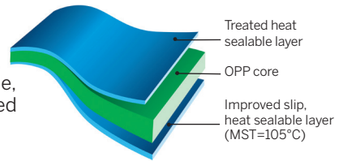


Nominal Thickness (µm)	Unit Weight (g/m^2)	Yield (m^2/kg)	Min. Sealing Temperature (°C)
20	18.2	54.9	105

TRANSPARENT

TLF

BoPP transparent film, both sides heat sealable, consistent and improved slip, treated

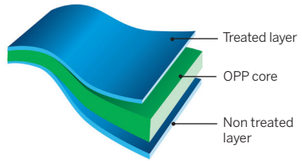


Nominal Thickness (µm)	Unit Weight (g/m^2)	Yield (m^2/kg)	Min. Sealing Temperature (°C)
15	13.7	73.3	105
25	22.8	44.0	

TRANSPARENT

TNS

BoPP transparent film, non sealable, treated

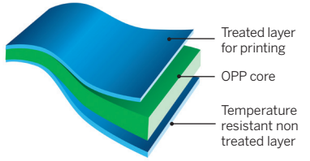


Nominal Thickness (µm)	Unit Weight (g/m^2)	Yield (m^2/kg)	Min. Sealing Temperature (°C)
12	10.9	91.7	-
20	18.2	54.9	
30	27.3	36.6	

TRANSPARENT

THR

BoPP transparent film, non sealable, improved thermal stability, for lamination, treated

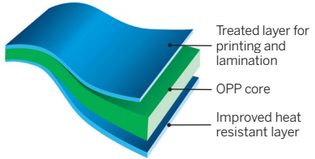


Nominal Thickness (µm)	Unit Weight (g/m^2)	Yield (m^2/kg)	Min. Sealing Temperature (°C)
18	16.4	61.0	-

TRANSPARENT

TTR

BoPP transparent film, improved heat resistance and thermal stability, for lamination, treated

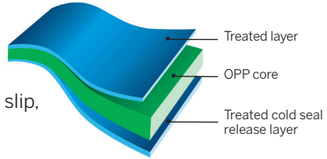


Nominal Thickness (µm)	Unit Weight (g/m^2)	Yield (m^2/kg)	Min. Sealing Temperature (°C)
18	16.4	61.0	-

TRANSPARENT

TNK

BoPP transparent film, non heat sealable, cold seal release, consistent slip, both sides treated

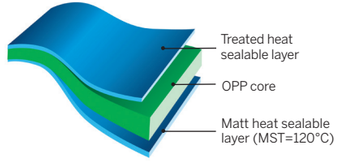


Nominal Thickness (µm)	Unit Weight (g/m^2)	Yield (m^2/kg)	Min. Sealing Temperature (°C)
20	18.2	54.9	-

MATT

MUS

BoPP matt film, both sides heat sealable, treated

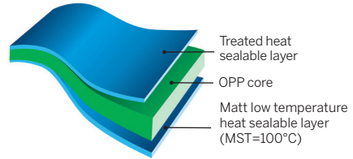


Nominal Thickness (µm)	Unit Weight (g/m^2)	Yield (m^2/kg)	Min. Sealing Temperature (°C)
20	18.0	55.6	120
30	27.0	37.0	

MATT

MSS

BoPP matt film, one side wide heat seal range, treated

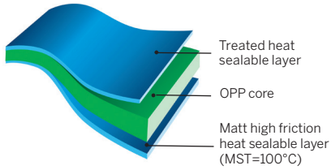


Nominal Thickness (µm)	Unit Weight (g/m^2)	Yield (m^2/kg)	Min. Sealing Temperature (°C)
20	18.0	55.6	100

MATT

MHF

BoPP matt film, both sides heat sealable, high friction, treated

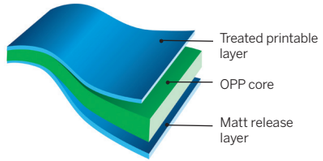


Nominal Thickness (µm)	Unit Weight (g/m^2)	Yield (m^2/kg)	Min. Sealing Temperature (°C)
20	18.0	55.6	100

MATT

MMR

BoPP matt film, cold seal release, treated

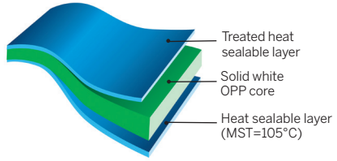


Nominal Thickness (µm)	Unit Weight (g/m^2)	Yield (m^2/kg)	Min. Sealing Temperature (°C)
18	16.2	61.7	-

SOLID WHITE

WSS

BoPP solid white film, both sides heat sealable, treated

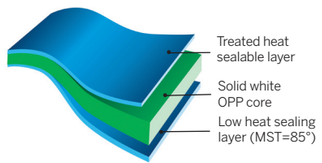


Nominal Thickness (µm)	Unit Weight (g/m^2)	Yield (m^2/kg)	Min. Sealing Temperature (°C)
20	19.3	51.8	105
30	29.0	34.5	
35	33.8	29.6	
50	48.3	20.7	

SOLID WHITE

WLS

BoPP solid white film, one side very wide heat seal range, treated

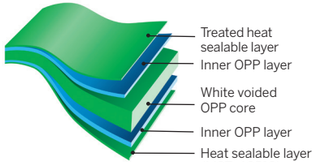


Nominal Thickness (µm)	Unit Weight (g/m^2)	Yield (m^2/kg)	Min. Sealing Temperature (°C)
20	19.3	51.8	85

WHITE VOIDED

ERD

BoPP white voided film, both sides heat sealable and high gloss, treated

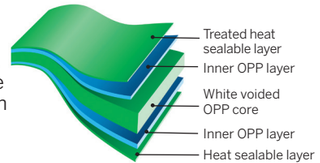


Nominal Thickness (µm)	Unit Weight (g/m^2)	Yield (m^2/kg)	Min. Sealing Temperature (°C)	Density (g/cm^3)
28	20.8	48.1		
35	26.0	38.5	105	0.74
40	29.5	33.9		

WHITE VOIDED

ELD

BoPP white voided film, both sides heat sealable and high gloss, very high yield, treated

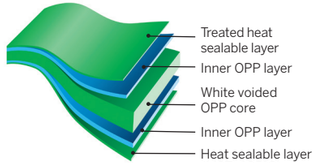


Nominal Thickness (µm)	Unit Weight (g/m^2)	Yield (m^2/kg)	Min. Sealing Temperature (°C)	Density (g/cm^3)
33	20.5	48.9		
38	23.6	42.4	105	0.62
47	29.1	34.3		

WHITE VOIDED

EXD

BoPP white voided film, both sides heat sealable and high gloss, ultra high yield, treated

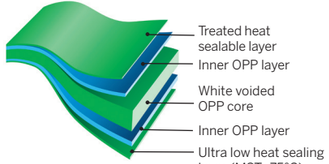


Nominal Thickness (µm)	Unit Weight (g/m^2)	Yield (m^2/kg)	Min. Sealing Temperature (°C)	Density (g/cm^3)
38	20.9	47.8	105	0.55

WHITE VOIDED

EXS

BoPP white voided film, one side ultra wide heat seal range, both sides high gloss, treated

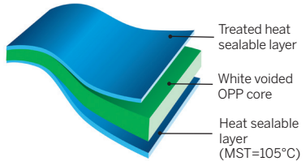


Nominal Thickness (µm)	Unit Weight (g/m^2)	Yield (m^2/kg)	Min. Sealing Temperature (°C)	Density (g/cm^3)
28	20.8	48.1		
35	26.0	38.5	75	0.74
50	37.0	27.0		

WHITE VOIDED

ESK

BoPP white voided film, both sides heat sealable, treated

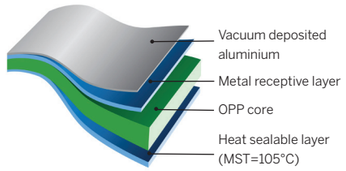


Nominal Thickness (µm)	Unit Weight (g/m^2)	Yield (m^2/kg)	Min. Sealing Temperature (°C)	Density (g/cm^3)
35	24.5	40.8	105	0.70
40	29.0	34.5		

METALLIZED

ZSS

BoPP metallized film, heat sealable

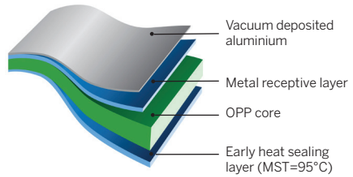


Nominal Thickness (µm)	Unit Weight (g/m^2)	Yield (m^2/kg)	Min. Sealing Temperature (°C)	WVTR ($g/m^2/d$)	O_2TR ($cm^3/m^2/d$)
15	13.7	73.3	105	0.40	90
18	16.4	61.1			
20	18.2	54.9			
30	27.3	36.6			
35	31.9	31.4			

METALLIZED

ZES

BoPP metallized film, one side wide heat seal range

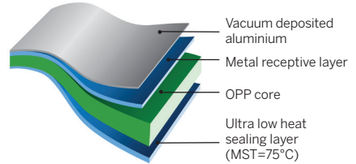


Nominal Thickness (µm)	Unit Weight (g/m^2)	Yield (m^2/kg)	Min. Sealing Temperature (°C)	WVTR ($g/m^2/d$)	O_2TR ($cm^3/m^2/d$)
10	9.1	109.9	95	0.40	90
12	10.9	91.7			
15	13.7	73.3			
20	18.2	54.9			
30	27.3	36.6			

METALLIZED

ZUL

BoPP metallized film, one side ultra wide heat seal range, consistent slip and improved barrier

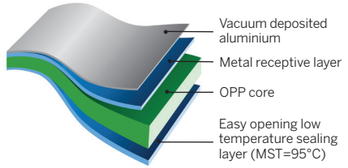


Nominal Thickness (µm)	Unit Weight (g/m^2)	Yield (m^2/kg)	Min. Sealing Temperature (°C)	WVTR ($g/m^2/d$)	O_2TR ($cm^3/m^2/d$)
15	13.7	73.3	75	0.20	25
20	18.2	54.9			

METALLIZED

ZSY

BoPP metallized film, one side wide heat seal range, easy opening

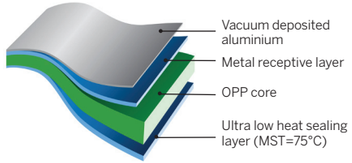


Nominal Thickness (µm)	Unit Weight (g/m^2)	Yield (m^2/kg)	Min. Sealing Temperature (°C)	WVTR ($g/m^2/d$)	O_2TR ($cm^3/m^2/d$)
15	13.7	73.3	95	0.40	90

METALLIZED

ZSX

BoPP metallized film, improved seal integrity, one side ultra wide heat seal range

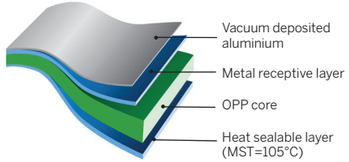


Nominal Thickness (µm)	Unit Weight (g/m^2)	Yield (m^2/kg)	Min. Sealing Temperature (°C)	WVTR ($g/m^2/d$)	O_2TR ($cm^3/m^2/d$)
30	27.3	36.6	75	0.40	90

METALLIZED

ZHB

BoPP metallized film, improved heat seal strength, high barrier

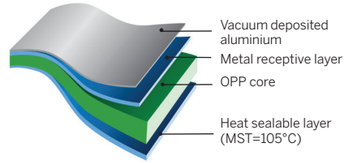


Nominal Thickness (µm)	Unit Weight (g/m^2)	Yield (m^2/kg)	Min. Sealing Temperature (°C)	WVTR ($g/m^2/d$)	O_2TR ($cm^3/m^2/d$)
30	27.3	36.6	105	0.40	70

METALLIZED

ZLF

BoPP metallized film, heat sealable, improved slip, improved barrier

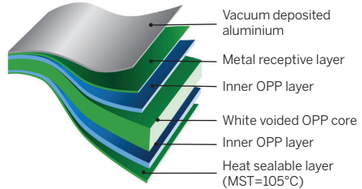


Nominal Thickness (µm)	Unit Weight (g/m^2)	Yield (m^2/kg)	Min. Sealing Temperature (°C)	WVTR ($g/m^2/d$)	O_2TR ($cm^3/m^2/d$)
15	13.7	73.3	105	0.20	60

METALLIZED

ZRD

BoPP metallized white voided film, one side heat sealable

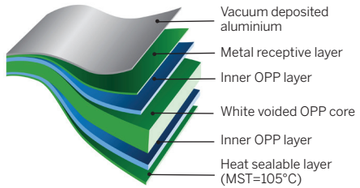


Nominal Thickness (µm)	Unit Weight (g/m^2)	Yield (m^2/kg)	Min. Sealing Temperature (°C)	WVTR ($g/m^2/d$)	O_2TR ($cm^3/m^2/d$)	Density (g/cm^3)
28	20.8	48.1	105	0.25	50	0.74
35	26.0	38.5				

METALLIZED

ZLD

BoPP metallized white voided film, one side heat sealable, very high yield, excellent barrier

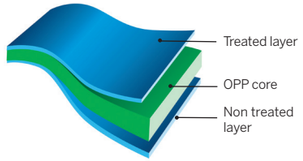


Nominal Thickness (µm)	Unit Weight (g/m^2)	Yield (m^2/kg)	Min. Sealing Temperature (°C)	WVTR ($g/m^2/d$)	O_2TR ($cm^3/m^2/d$)	Density (g/cm^3)
38	23.6	42.4	105	0.40	90	0.62
47	29.1	34.3				

TRANSPARENT

TPT

BoPP transparent film, treated

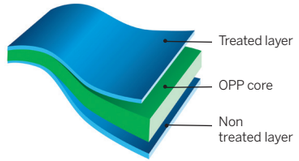


Nominal Thickness (µm)	Unit Weight (g/m^2)	Yield (m^2/kg)	Min. Sealing Temperature (°C)
25	22.8	44.0	-
28	25.5	39.2	
32	29.1	34.3	
35	31.9	31.4	
50	45.5	22.0	

TRANSPARENT

SFT

BoPP transparent film, non heat sealable, slip modified, treated

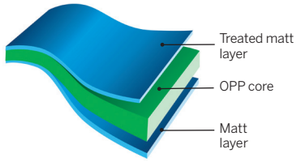


Nominal Thickness (µm)	Unit Weight (g/m^2)	Yield (m^2/kg)	Min. Sealing Temperature (°C)
20	18.2	54.9	-

MATT

TPM

BoPP matt film, treated



Nominal Thickness (µm)	Unit Weight (g/m²)	Yield (m²/kg)	Min. Sealing Temperature (°C)
30	27.0	37.0	-

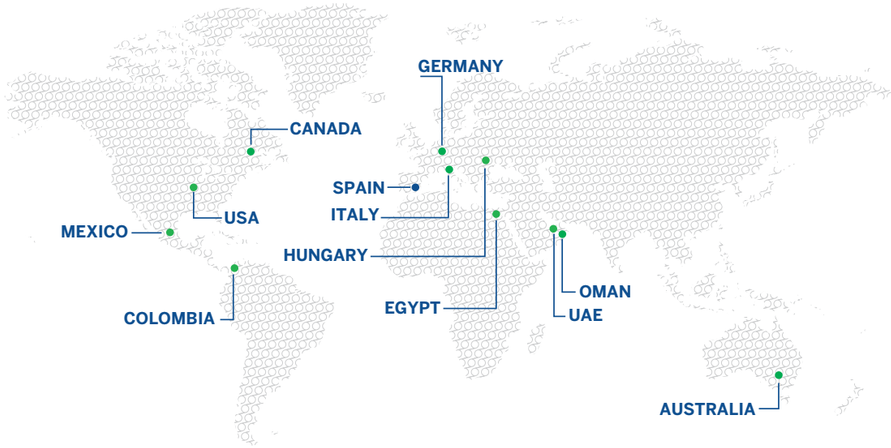
BoPP films of this portfolio can be laminated with EXTENDO® films from Taghleef to merge together:



In a PP based solution suitable for recyclability.

OUR PRESENCE

Taghleef Industries



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