



NEW SUSTAINABLE BARRIER PRODUCTS IN OUR FILM RANGE

CHLORINE FREE & RECYPP SOLUTIONS

COMPANY PRESENTATION

VIBAC Group is a multinational enterprise and one of the world's leading companies in packaging films industry and in the pressure sensitive self adhesive tapes.

MARKETS

We are contributing to the growth of different industries:

- Industrial sector
- Packaging and labelling
- Transportation and logistics
- E-commerce and business services
- Building and automotive
- Professional painting and DIY

VISION

"A successful company lives in harmony with the society and its surrounding environment. Our company has a strong philosophy of constant innovation. Our strongest focus is on social responsibility, proper work ethic and safety, as well as the reduction of the environmental impact of our manufacturing process and minimizing the use of harmful products. We want to ensure sustainability and continuous improvement in the life's quality".

Cristina Battista – Vibac Group CEO

We are serving different channels:

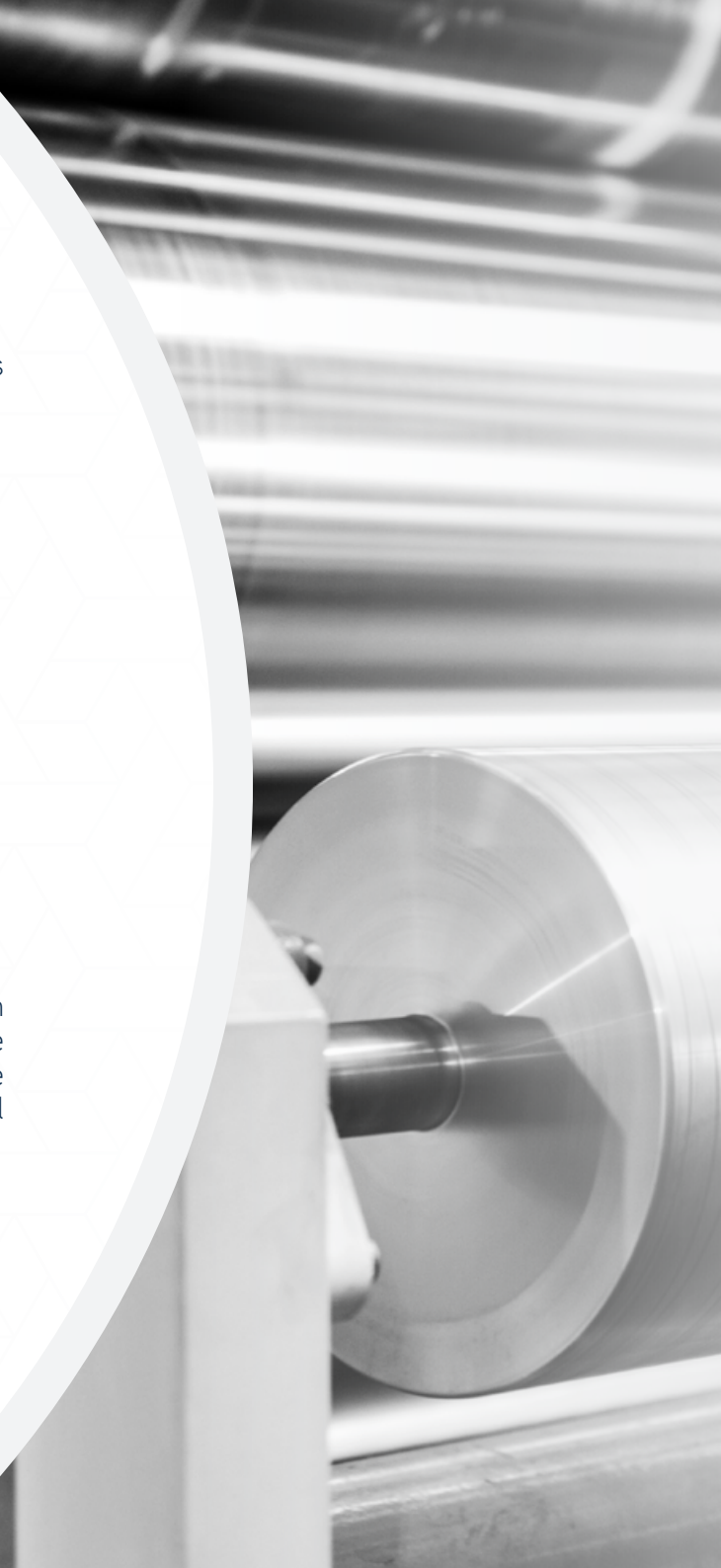
- Converters / printers
- Wholesalers / distributors
- Professional dealers
- Large-scale retail trade
- Food industry brand owners

MISSION

We are committed to support circular economy with dedicate R&D projects. We invest in cutting-edge production processes and raw materials to guarantee high quality standards in compliance with international regulations.

Vibac endorses a business management:

- In full respect for the environment and enabling energy savings
- Ensuring the product safety
- Contributing to the overall social and economic development





- Tape operations
- BOPP Film operations
- Headquarters

- VIBAC S.p.A - Italy
- 1 Headquarter (Ticineto) Italy
 - 2 Vinci Plant (Vinci) Italy
 - 3 L'Aquila Plant (L'Aquila) Italy
 - 4 Termoli Plant (Termoli) Italy
 - 5 Viggiano Plant (Viggiano) Italy
 - 6 VIBAC Balcani D.o.o. (Jagodina) Serbia
 - 7 VIBAC TAPE Inc. (Montreal) Canada
 - 8 New Branch (Johannesburg) South Africa



GLOBAL PRESENCE

6 operative plants in Europe and North America. Serving customers in over 130 countries.



OUTSTANDING PRODUCTION CAPABILITIES



300 MILLION EUROS

revenues



900

employees

CIRCULAR ECONOMY



Vibac drives the change from a linear to a circular economy within the flexible packaging market promoting two new ranges of films with increased recyclability rate and able to meet high recyclability targets.



PVdC Free

PVdC has been used as a barrier coating layer in food flexible packaging for decades. Nowadays, packaging producers and retailers are searching for viable alternative in order to overcome PVdC negative effects on recycled plastic quality.

Vibac PVdC free range is addressing this challenge replacing previous PVdC coated film with "eco-friendly" alternatives. PVdC free films ensure the same outstanding barrier performances to gas, aroma and mineral oils as PVdC coated ones, in addition with a better recyclability.

RECYPP

There are several difficulties in collecting, sorting and recycling multimaterial structures from the post-consumer waste stream. This "hard to recycle packaging" gives a negative impact both on the yield of the recycling process and on the quality of recycled resin.

RECYPP range, launched by Vibac, is focused on the arising need to overcome these difficulties. Our ready-to-recycle films are mono-material and endorse a smart waste management.

PVdC FREE FILMS



Vibac chlorine free portfolio includes a broad range of items providing solutions for many market segments ranging from bakery and confectionery to cosmetic applications.

New PVdC free films range boasts better sustainability than PVdC coated products while keeping excellent barrier properties even at high relative humidity levels, outstanding optical features and good machinability: the result is an appealing, cost effective and flavour preserving packaging.



PVdC free



Clear high barrier

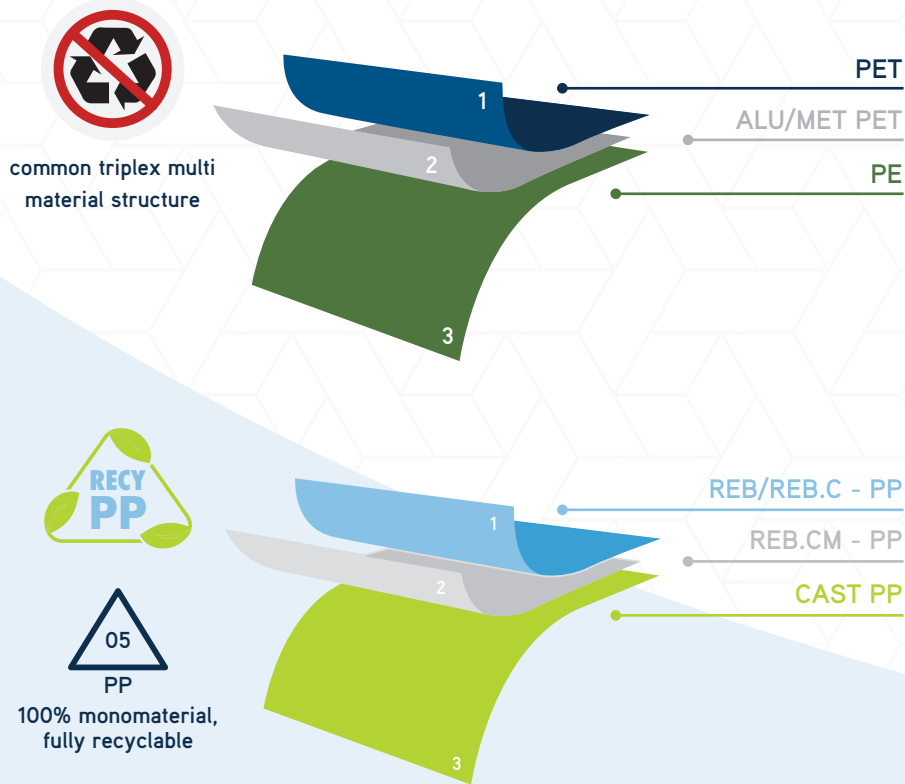
Clear medium barrier

White cavitated medium barrier

	THICKNESS [μm] ASTM D882	OTR [$\text{cc}/\text{m}^2/\text{day}$] 23 °C-0% R.H. ASTM D3985	WVTR [$\text{g}/\text{m}^2/\text{day}$] 37,8 °C-90% R.H. ASTM F1249	SIT [°C] OPMA TC4b
W.L.C	25	700	3	90
	30	650		
X1.C	20	10	4,5	105
X.A.C	21	10	4,5	90
	26		4	
	32		3,8	
X.L.C	26	5	3	70
	32		2,8	
Y.A.C	20	20	6	90
	25		5,5	
	30		5	
Y.L.C	26	20	4,9	70
Y.A.H	32	20	5,5	90
	37		5	
	42		4,5	

MOVING TOWARDS A CIRCULAR ECONOMY

RECYPP SOLUTION



RECYPP range falls within the framework of the transition from multi-material to single polymer laminates offering new special films both transparent and metalized developed to replace pet outside layer and alu foil/met pet intermediate layer in duplex and triplex structures.

RECYPP films are increasingly used in coffee market, pet food, cheese, dried fruit and baby powder food thanks to their ultra high barrier, reduced packaging weight and ready to recycle design.



Transparent film with improved thermal resistance and mechanical stiffness



	Thickness [μm] ASTM D882	Elastic modulus 1% MD [N/mm ²] ASTM D882	Thermal shrinkage [%] (hot air 130 °C-5') OPMA TC4a	OTR [cc/m ² /day] 23 °C-0% R.H. ASTM D3985	WVTR [g/m ² /day] 37,8 °C-90% R.H. ASTM F1249
REB	18	2500	MD: 2,5 TD: 0,5		
	20				
REB.C Barrier Version	20	2400	MD: 3 TD: 0,5	20	5

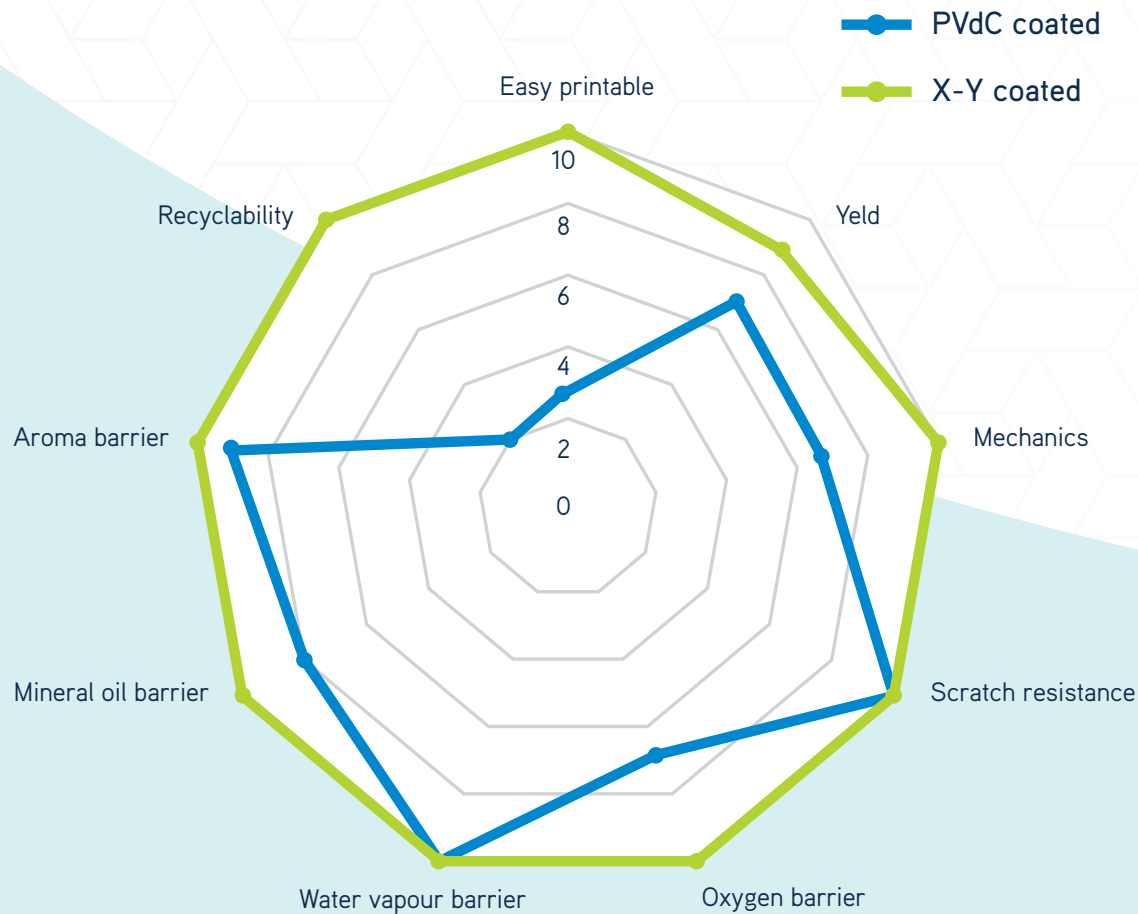


Ultra high barrier metalized coated film

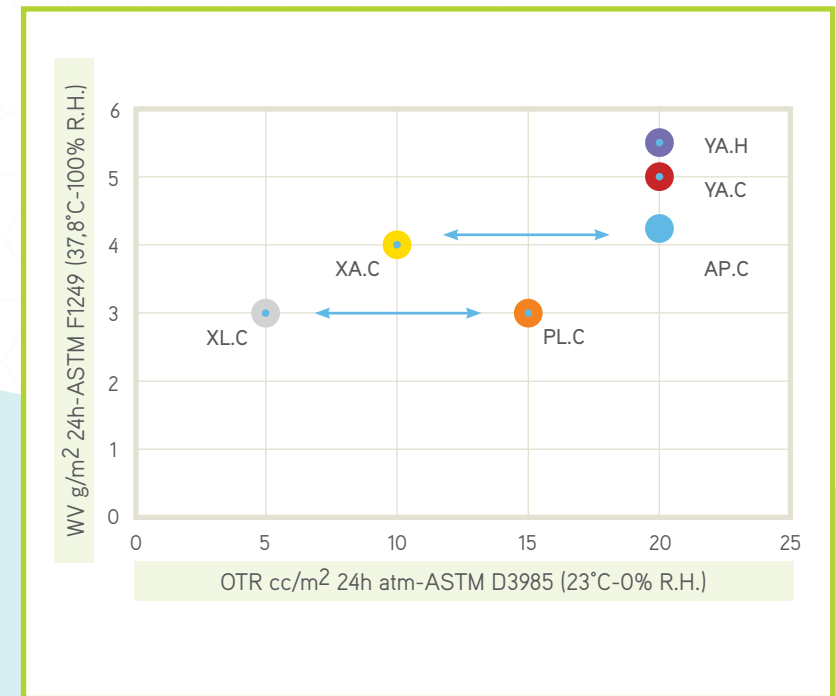
	Thickness [μm] ASTM D882	OTR [cc/m ² /day] 23 °C-0% R.H. ASTM D3985	WVTR [g/m ² /day] 37,8 °C-90% R.H. ASTM F1249
REB.CM	18	0,1	0,1
	30		0,08

FEATURES

PVdC FREE VS PVdC COATED OUTSTANDING BARRIER PERFORMANCES



In addition to their higher Recyclability Standard, PVdC Free solutions give same WVTR as PVdC coated Films and even better OTR values. Chlorine Free Films offer as well outstanding Mineral Oil and Aroma barrier. They can be easily printed with Std Nitrocellulose-based inks and offer 2% gain on square meter thanks to a lower grammage.

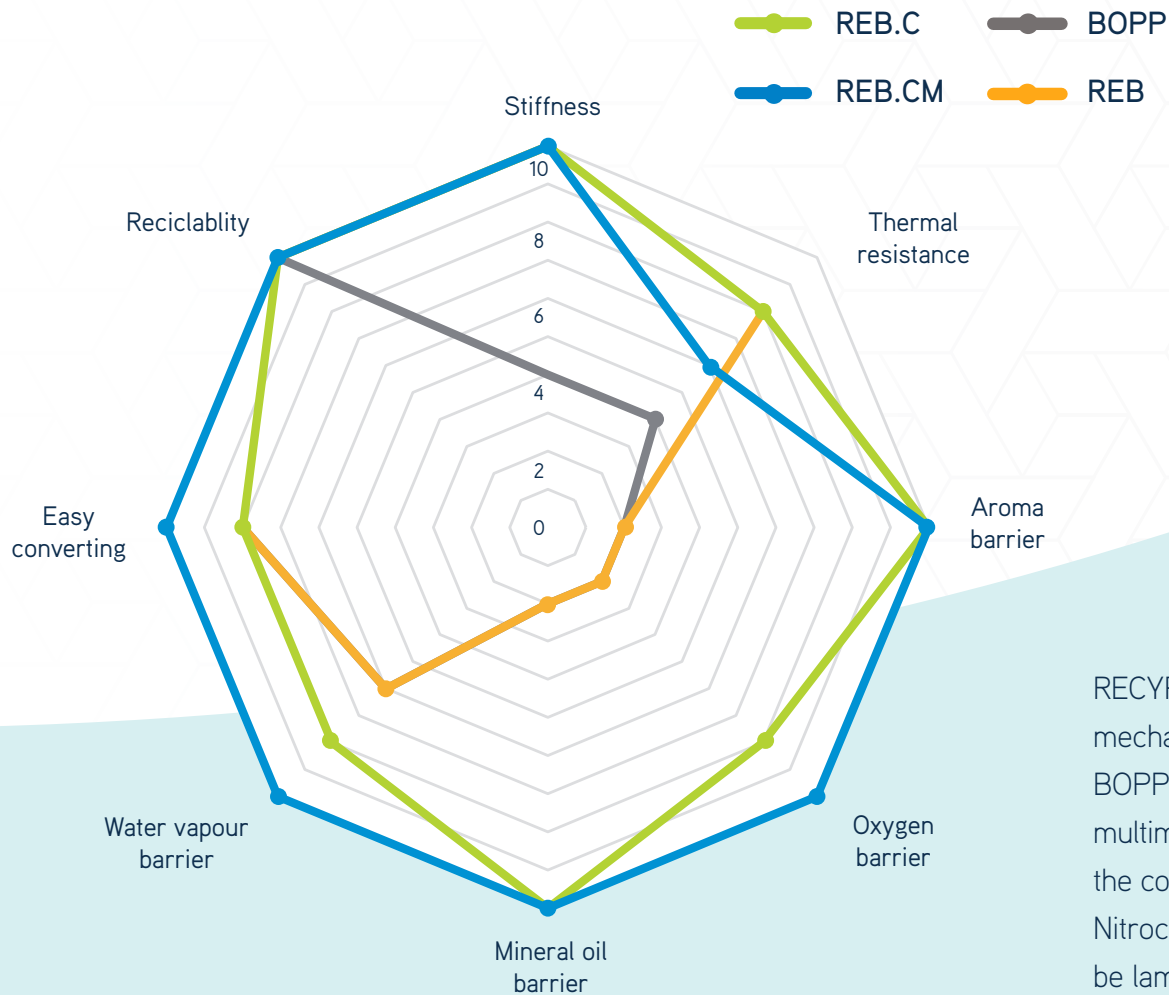


*: Refers to 26µm µm for X-range product, 32µm µm for YA.H and 30µm µm for YA.C



RECYPP

READY-TO-RECYCLE MONOMATERIAL FILMS



Std BOPP

Improvement of thermal resistance:
REB

Gain of aroma, mineral oils, O₂ and WV barriers:
REB.C

Further upgrading of O₂ and WV barriers, easy processable two-side treated films
REB.CM

O₂ Barrier Plus

MOH Barrier Plus

RECYPP Films combine superior barrier performance and better mechanical and thermal resistance properties compared to Std BOPP suiting the replacement of PET, Alu Foil/Met PET and PE in multimaterial structures. RECYPP products allow an easy handling of the converting process: REB and REB.C can be easily printed with Std Nitrocellulose-based inks while REB.CM being both sides treated can be laminated in coupled structures without any online retreatment.



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