

Welcome to the Exciting FUTURE OF BIOPLASTICS



(Flexible Packaging Division)

Why Compostable Packaging?

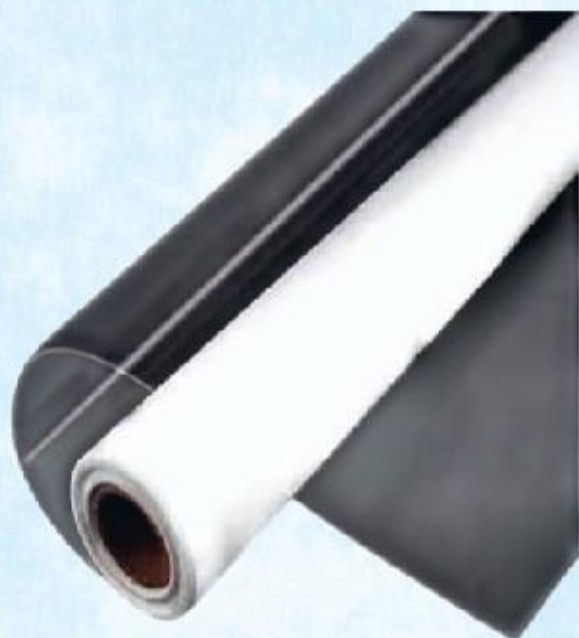
Compostable packaging addresses critical environmental challenges that traditional plastic packaging cannot solve. Flexible plastic films and multi-layered packaging, while essential for food protection and shelf-life extension, present significant recycling challenges with only 3% recycling rates even in advanced markets.

Environmental Benefits of compostable packaging include:

- Pollution Reduction:
- Greenhouse Gas Reduction:
- Soil Enhancement:
- Waste Stream Optimization:
- Resource Efficiency:



Compostable film for printing and Lamination.



Available from 10 micron to 100 micron. All films are compostable.

All films for lamination have very high heat seal strength and excellent hot tack strength, which is most important for seal through contamination. Apart from standard film, high heat seal strength film is also available. These films can be used for almost all applications.

Sealable Compostable Films

- Co-extruded film
- Low seal initiation temperature
- Runs at a very high speed
- Excellent tear ability
- Both sides / one sided -sealable
- Highest seal integrity application
- Multilayer laminates
- Sealing layer for lamination
- Especially suitable for food packaging

Technical Properties -10 -50 μ (Typical Values)

Parameter	Standard	Unit	Metric Values	Metric Values	Metric Values	Metric Values	Metric Values	Metric Values	Metric Values
Thickness		μ	10	15	20	25	35	40	50
Density		g/cm^3	1.23	1.23	1.23	1.23	1.23	1.23	1.23
Yield		m^2/kg	82	55	41	32.5	23.2	20.3	16.3
COF Kinetic Film/Film	D1894		0.2-0.5	0.2-0.5	0.2-0.5	0.2-0.5	0.2-0.5	0.2-0.5	0.2-0.5
COF Kinetic Seal/Seal	D1894		0.2-0.5	0.2-0.5	0.2-0.5	0.2-0.5	0.2-0.5	0.2-0.5	0.2-0.5
Sealing strength MD@100°C	F2029	N/25mm	>16	>16	>16	>16	>16	>16	>18
Seal Initiation Temperature		From (°C)	55-60	55-60	55-60	55-60	55-60	55-60	55-60
Transparency			98%	98%	98%	97%	96%	95%	94%

High Barrier Lamination Films



A bigger challenge for bioplastic is to be at par with conventional plastics in terms of functional requirements, particularly barrier. Our barrier films designed to prevent penetration of gases, moisture and UV lights, making film ideal for applications requiring extended shelf life and retention of freshness and aroma.

Our compostable high barrier films are developed using various techniques like Material modification, coating or metallisation. Barrier properties can be designed according to product requirements.

High barrier compostable film is made using compostable oriented base film. It is coated to improve barrier properties with compostable coating and then it is metalized on one side.

This film can be used for snack food packaging and other packaging where barrier is required. Ideally suited for lamination.

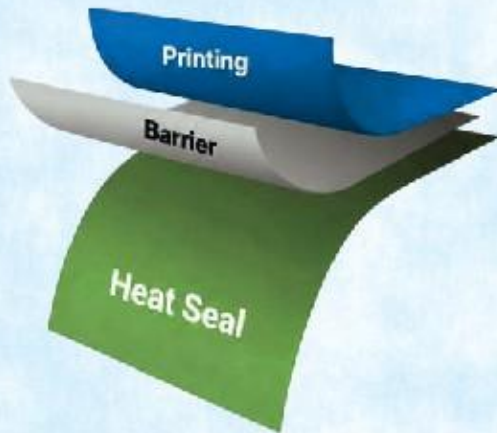
Features

- A metallized film, made a renewable resource: plants.
- Excellent barrier properties.
- Excellent surface brightness and metal adhesion.

We can design film as per your property requirements, also

Properties	Values		Units	Test Methods
Thickness	20	25	µm	
Yield	40	32	Sq Mtrs /kg	
Optical Density	2.7	2.7	Macbeth	
Light Transmission	<1.0	<1.0	%	
Coefficient of Friction	0.3 Kinetic 0.35 Static	0.3 kinetic 0.35 static	4mm, 23°C	ASTM D1894
WVTR	1.9	1.85	g/Sq Mtr/24 hr.	(38° C, 90% RH)
OTR	4.2	4.0	cc/Sq Mtr/24 hr.	(25° C, 50% RH)

Compostable flexible laminates



Laminates are packaging material developed where only one substrate cannot meet all product packaging requirements.

We can develop laminating structure as per product requirements, by combining properties of different substrate which can meet product packaging requirements.

We have developed various structures using paper, High barrier specialty coatings and High barrier Bioplastic films, Aluminium foil etc. All laminates developed by us are fully biodegradable and compostable.

Key Application Section :

- Food and Beverages
- Pharmaceutical and Healthcare
- Personal Care & Cosmetics
- Home Care
- Industrial & Agriculture
- Ecommerce & Logistics
- Retail & Morden trade

We can replace following conventional laminate structures like,

Conventional structure

PET / PE
PET / MET PET / PE
PET / MET BOPP / PE
PET / AL FOIL / PE

BOPP / BOPP
PET / BOPP
AL FOIL / PAPER /AL FOIL / HSL
PAPER / AL FOIL / HSL

Compostable structure

Bio plastic /Bio plastic
Bio plastic/ Metalized Bio plastic/Bio plastic
Bio plastic/ Metalized Bio plastic/Bio plastic
Bio plastic/ ultra-high barrier Bio plastic/Bio
Bio plastic/ Al foil /Bio plastic
Bio plastic/Bio plastic
Bio plastic/Bio plastic
Al foil/ Paper/ Met Bio
Paper/Foil/Bio plastic



ADVANCE BIO MATERIAL COMPANY PRIVATE LIMITED

525, Avior, Nirmal Galaxy, LBS Marg, Mulund -West, Mumbai -400080, India

Tel +91-22 4451 1469 / +91 7021414094 / +91 91379 07716/ +91 93724 69514/
+91 91371 57226/ +91 91371 65486

Email -info@advancebioplast.com

Web: www.advancebioplast.com

Branches at Ahmedabad, Chennai & Delhi