



2.1 Product Series

功能性膜材BOPA

ULTRANY 优耐膜®

- HOA1 均衡型
- OA1 印复型
- OA2 复合型
- SHA 同步型
- LHA 同步型

Supamid 矢量膜™

- EHAp 锁鲜型
- EHAr 锁鲜型
- TSAr 秒撕型
- TSA 秒撕型
- MATT 消光型
- VMPA 镀铝型

PHA 锂电膜™

- PHA
- xPHA

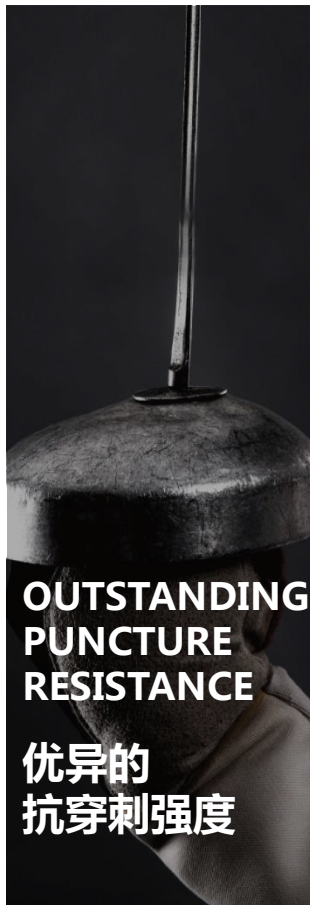
生物基膜材BOPLA

BIONLY 佰恩丽™

- ECP 复合型
- ESL 热封型



2.2 General Features of BOPA





2.3 BOPA Application Fields

4% 电子类
Electronics

3% 医药及其他类
Pharmaceuticals and Others

23% 日化类
Daily Chemical Use

70% 食品类
Food

BOPA薄膜
应用范围
Application Fields of
BOPA Film





2.5 BOPA Application Fields

米面粮油
Cereals



速冻食品
Frozen Foods



调味酱料
Sauces



肉制品
Meats



被服压缩袋
Vacuum Bags



日化
Daily-use



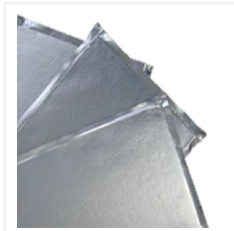
医药
Pharmaceuticals



电子
Electronics



工业
Industrial use



其他
Others

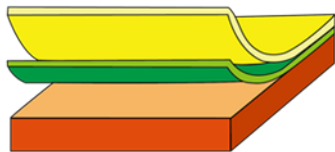


2.5.1 Lidding and Cover

BOPET

BOPA

LLDPE



BOPA

LLDPE or CPP



Leisure food



Leisure food

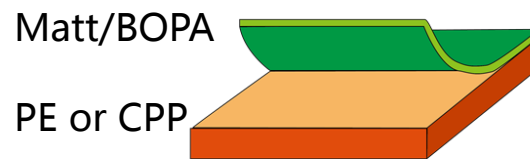
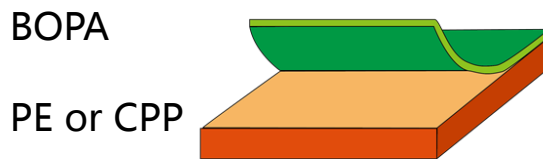
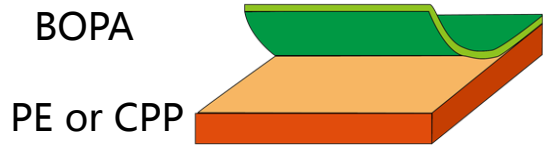


Rice Wine



Tofu

2.5.2 Cake and Bread



Toast



Cake

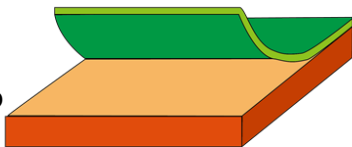


Bread

2.5.3 Soft Can

BOPA

PE or CPP

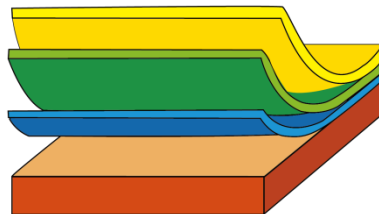


PET

BOPA

AL

RCPP



Orange



Peach



Sauce



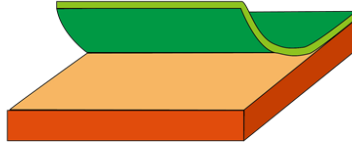
Sauce



2.5.4 Pet Food Packaging

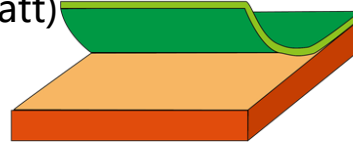
BOPA

PE



BOPA (Matt)

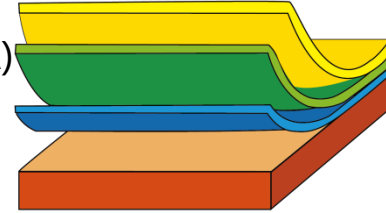
PE



PET
BOPA(TSA)

AL

RCPP

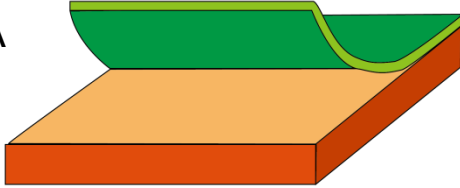




2.5.5 BIB(Bag in Box)

BOPA

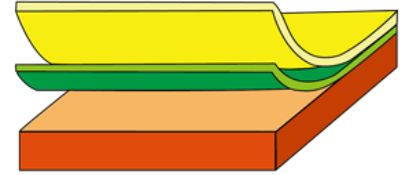
PE



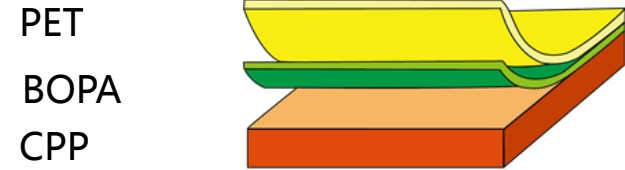
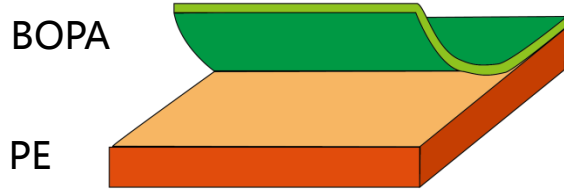
VMPET

BOPA

CPP



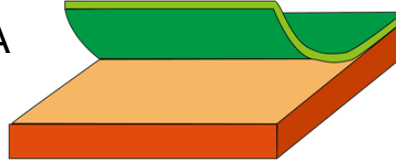
2.5.6 Liquid Packaging





2.5.7 Air Package

BOPA
PE



Vacuum Storage Bag



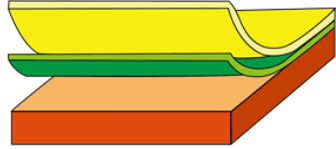
Air Column Safety Package

2.5.8 Balloon

VM

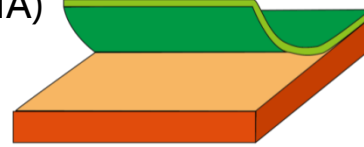
BOPA

PE



BOPA (EHA)

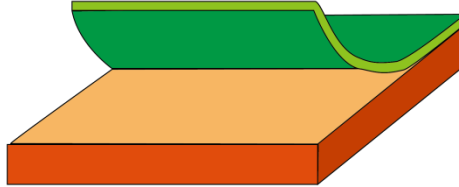
PE





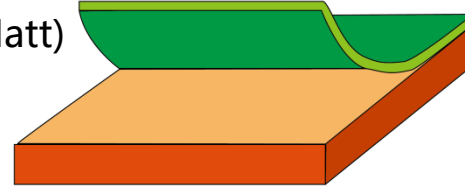
2.5.9 Book Cover

BOPA

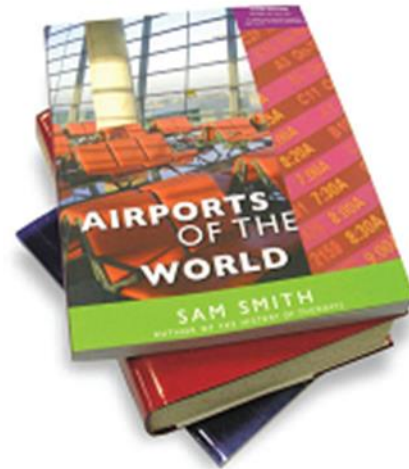


Paper

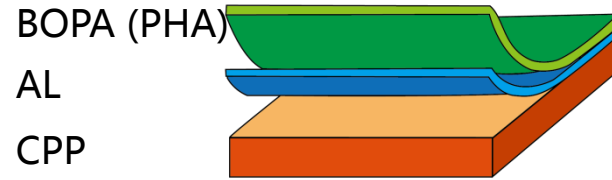
BOPA(Matt)



Paper

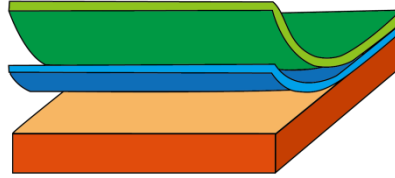


2.5.10 Lithium Battery Package



2.5.11 Blister Package (for Drug)

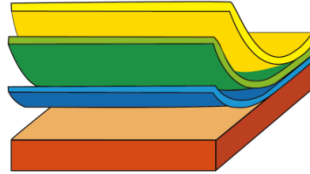
BOPA
AL
PVC



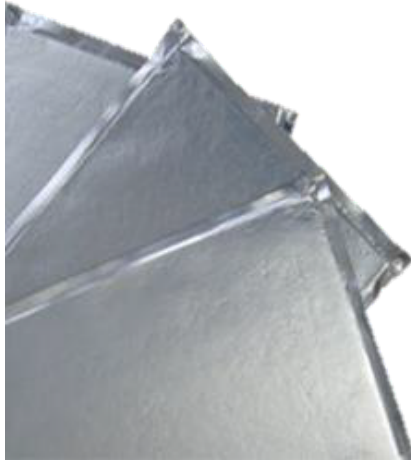
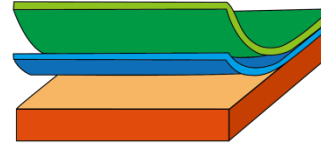


2.5.12 Industry Package

BOPA
VMPET
AL
PE



BOPA
AL
PE



(Vacuum Insulation Panel) VIP Board



Resin Bag

The graphic features three overlapping, rounded shapes in shades of green and yellow. The central shape is a vibrant green, while the others are lighter and more translucent. Surrounding these shapes are numerous thin, white, curved lines that create a sense of motion and depth, resembling a stylized globe or a dynamic field of energy.

生物基膜材
BOPLA

PLA : the ideal plastic in the future

- Bio-PE
- Bio-PP
- Bio-PET

Bio-based
(Carbon neutral)

✓ PLA

✓ PHA

Degradable

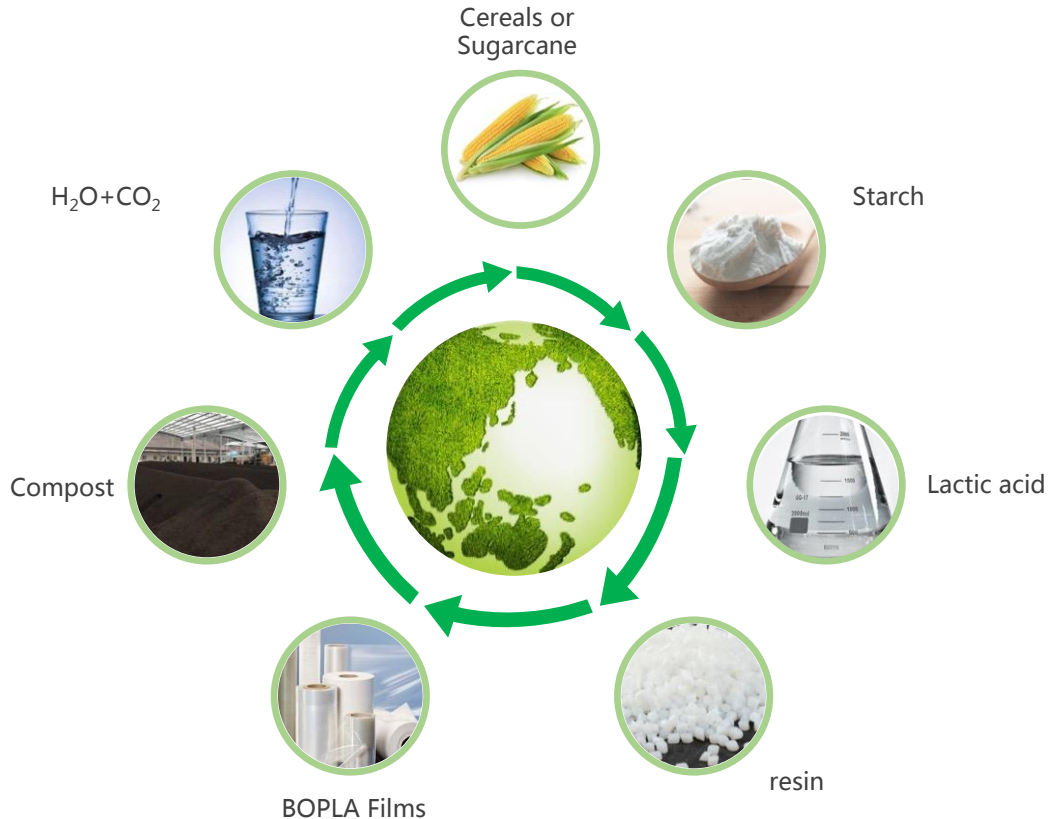
Non-degradable

- PE
- PP
- PVC
- PET

- PBAT
- PBS

Petroleum-based
(Carbon emission)

PLA : the ideal plastic in the future



Coming from nature and returning back to nature

✓ Bio-based

PLA shows the lower carbon emission. The unit weight of carbon emission of PLA only equals to PET 26% , PP 32%.

✓ Recyclable

Lactide (intermediate) can be recycled through catalytic reaction and reach a high recovery rate of 98.5%.

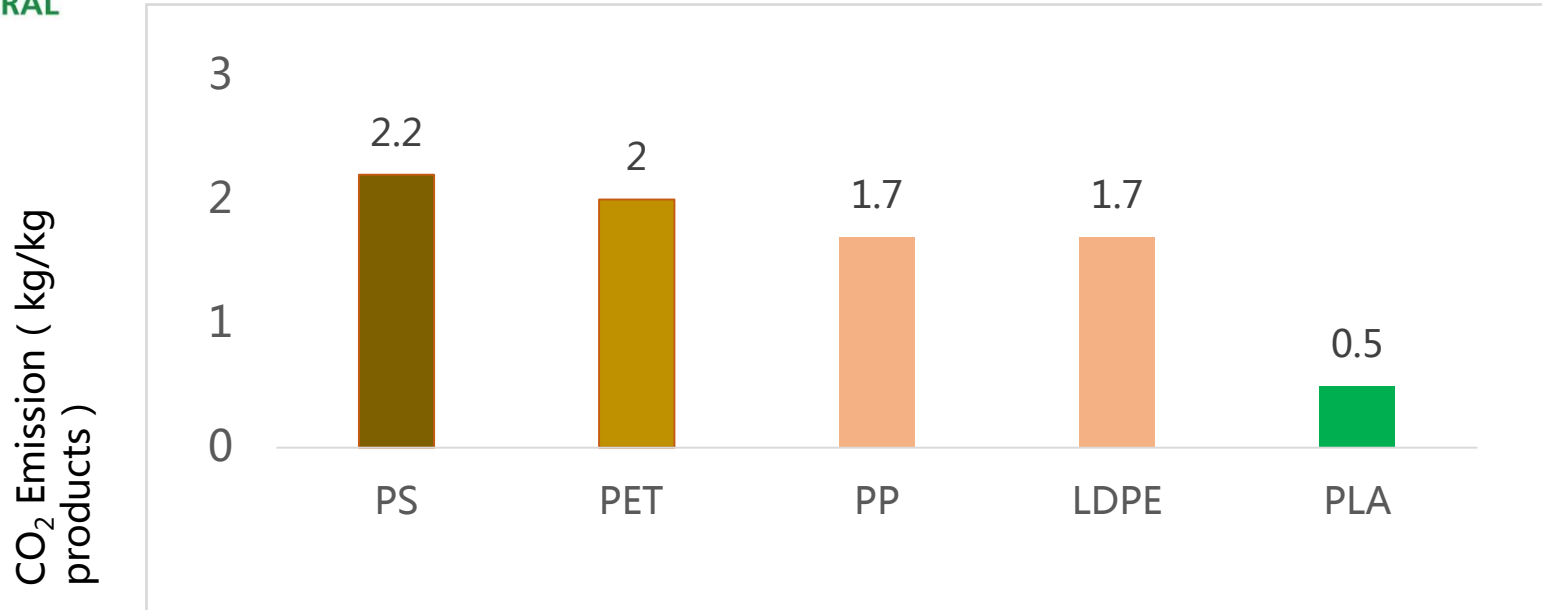
✓ Degradable

By composting, PLA can be 100% biodegraded within 180 days under composting condition with final outcome of H₂O+CO₂.

✓ Food-contact safety

The monomer of PLA is lactic acid, which is a commonly used food additive in food, wine-making and pharmaceuticals industry.

PLA : the ideal plastic in the future



Compared with oil-based materials, the PLA generates **70% less** CO₂ emission.



Application of BOPLA



胶带膜
Tape



开窗膜
Box with window



生鲜膜
Fresh Vegetable and Fruits



制袋膜
Bag



纸覆膜
Paper Lamination Film



糖果扭结膜
Twisting Film

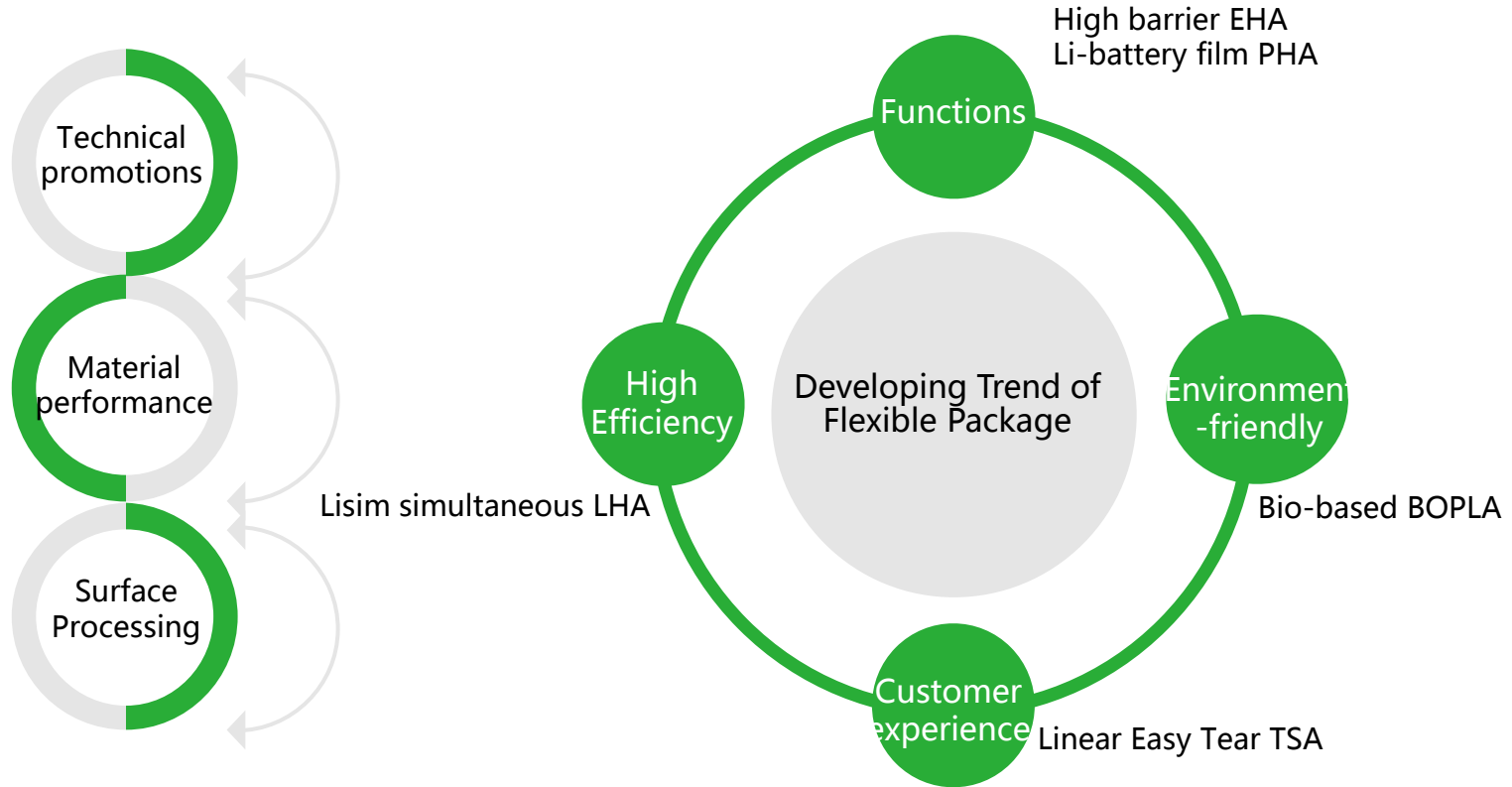


领先源自创新

Leading Through Innovation



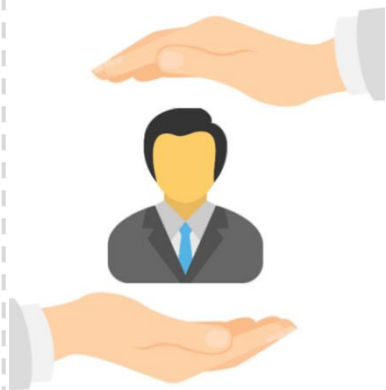
4.1 R&D Achievements





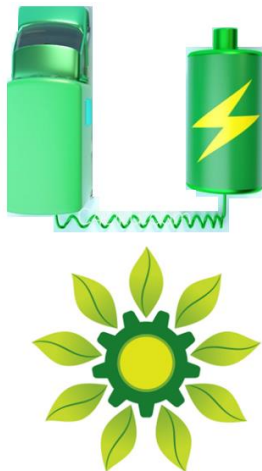
4.2 R&D Direction

Health and Safety



High barrier, antibacterial, antiviral and other functions

Industry and Energy



Functions of deep punching and heat durability, etc.

Low-carbon



Biodegradability, bio-base, chemical recovery, etc.