

塑料包装之结构

(FLEXIBLE PACKAGING MATERIAL STRUCTURE)

一、 冷冻食品包装 (FROZEN FOOD) 可选择材料结构:

材料结构 Material structure	特 性 Properties
OPP/LLDPE	防潮、耐寒、低温、透明度一般，封口强度高、封口较皱 Good moisture barrier and low temperature resistance. High seal strength at low sealing temperature.
PET/LLDPE	防潮、耐寒、低温、封口强度高、封口平整 Good moisture barrier and low temperature resistance. The sealing strength is very good.
NY/LLDPE	耐 100℃ 以内高温、耐低温、耐穿刺、耐重量、适合抽真空，封口强度更好，平整 Endures 100℃ and low temperature resistance. Good sealability and good vacuum. Tough and high impact resistance.
OPP/PEARL	遮光、耐寒、耐低温、封口强度一般，适合雪条包装 Good moisture barrier and low temperature resistance. Good light barrier and stiffness. Adapts to Ice creams wrapping.
PEARL	遮光、易封、耐寒，适合轻量物品，如雪条、湿纸巾，封口强度很弱 Good moisture barrier and low temperature resistance. Seal intension very weak. Adapts to Ice creams wrappig and waterish paper.
HEAT SEALABLE OPP	耐寒、耐低温、封口强度一般，适合雪条包装。单层需表印。Low temperature resistance. Seal intension common. Adapts to Ice cream wrapping. And printed outside(on the surface).
MATOPP/LLDPE	防潮、耐寒、低温、封口强度高、雅光效果、档次高 Good moisture barrier and low temperature resistance. Posses Mat effect and the high class quality..
MATOPP/PL PEAR	遮光、耐低温、封口强度一般，适合雪条包装。 Good moisture barrier and low temperature resistance. Adapts to Ice creams wrapping. The sealing strength is common.
MLLDPE	耐重量、耐低温（需表印，印刷效果较差） Can bears weight and low temperature resistance. Can be vacuumed.
LLDPE	耐低温、成本低（需表印，印刷效果较差） Low temperature, low costs.

二、 瓜子类、饼干类包装可选择材料结构:

材料结构 Material structure	特 性 Properties
HEAT SEALABLEOPP	防潮、易封口，适轻量物品，如紫菜、旺旺雪饼。 Good moisture barrier and good sealability for light products, e.g. the lavers.

OPP/CPP	透明度好、挺度好，但超过 0℃后变得很脆，易爆袋，封口强度较差，且易起皱。不适合在寒冷地区使用。 Good moisture barrier, oil resistance, high transparency and stiffness. But the sealing strength is very weak, under 0℃ it will blow up.
OPP/LLDPE	透明度差，挺度无 OPP/CPP 好，但是可以耐低温，封口强度很好。 Low transparency and stiffness. Very good low temperature resistance and good sealability
OPP/PET/CPP	防潮、保香、透明度好、挺度好、但不适合 0℃以下地区使用。易爆袋，封口强度较差。 High moisture barrier, moderate oxygen barrier. But the sealing strength is very weak, under 0℃ it will blow up.
KOP/CPP	耐油、透明、隔氧、保香、挺度好。 High moisture barrier. Very good oxygen and aroma barrier. Good oil resistance.
OPP/VMCPP	防潮、不透明、遮光、有铝泊效果、耐油、封口强度一般，且易起皱。如果在封口的地方无印刷，则会出现发白现象。复合强度较差，特别是经过热封以后。 Excellent moisture barrier, oil resistance, high oxygen and light barrier.
OPP/VMPET/CPP	防潮、隔氧、不透明、遮光、有铝泊效果，耐油、封口强度一般。挺度好，但不适合充气包装。 Excellent moisture barrier, oil resistance, high oxygen and light barrier.
OPP/VMPET/PE	防潮、隔氧、不透明、遮光、有铝泊效果，耐油、封口强度好、且封口较平整。适合充气包装。 Excellent moisture barrier, oil resistance, high oxygen and light barrier. Good low temperature resistance.
MATOPP/CPP	雅光效果，档次高。不透明，挺度好，不可以在 0℃以下地方使用。封口强度较差，且易起皱。 High class quality. Posses the Mat effect. Can not be used under 0℃ condition.
MATOPP/LLDPE	雅光效果，档次高。不透明，较软，可耐低温（0℃以下），封口强度好，不易起皱。 Good moisture barrier and low temperature resistance. Posses Mat effect and the high class quality..
MATOPP/VMCPP	雅光效果、档次高、不透明、遮光、有铝泊效果。封口强度一般，且易起皱。挺度一般。 Good moisture barrier. High oxygen and light barrier. Good oil barrier. Posses Mat effect and the high class quality..
MATOPP/VMPET/CPP	雅光效果、档次高、不透明、遮光、有铝泊效果。封口强度一般，且易起皱。挺度好。 Good moisture barrier. High oxygen and light barrier. Good oil barrier. Posses Mat effect and the high class quality.
MATOPP/VMPET/PE	雅光效果、档次高、不透明、遮光、有铝泊效果。封口强度很好，且不易起皱。 Good moisture barrier. High oxygen and light barrier. Good oil barrier. Posses Mat effect and the high class quality.. At low sealing temperature.
PET/CPP	透明度好、挺度好、不耐低温，不能在低于 0℃以下地区使用，适合自动包装机使用、可充气包装。 Good moisture barrier, medium oxygen and aroma barrier. High temperature end-use.
PET/VMCPP	防潮、隔氧、不透明、遮光，封口强度一般。如果在封口的地方无印刷，会出现发白现象。适合自动包装机包装，充气包装效果不佳。 Excellent moisture barrier, oil resistance, high oxygen and light- aroma barrier.

PET/VMPET/ CPP	防潮、隔氧、不透明、遮光，封口强度一般。适合自动包装机包装，充气包装效果不佳。Excellent moisture barrier, oil resistance, high oxygen and light- aroma barrier.
PET/VMPET/PE	防潮、隔氧、不透明、遮光、封口强度好、且平整。适合自动包装机包装。充气包装效果很好。Excellent moisture barrier, oil resistance, high oxygen and light- aroma barrier. At low sealing temperature.
KPET/ CPP	耐油、透明、保香、封口强度一般。不适合 0℃ 以下地区使用。挺度好。适合自动包装机包装。High moisture barrier. Very good oxygen and aroma barrier. Good oil resistance.
KPET/PE	耐油、透明度略差、封口强度很好，保香、可耐 0℃ 以下温度。挺度较差。适合自动包装包装。High moisture barrier. Very good oxygen and aroma barrier. Good oil resistance. High seal strength at low sealing temperature.
KPET/VMCPP	耐油，遮光、防潮、隔氧、保香、封口强度一般，挺度较好。适合自动包装机包装。High moisture barrier. Very good oxygen and aroma barrier. Good oil resistance.
KPET/VMPET12/PE	耐油、遮光、防潮、隔氧、保香、封口强度很好，挺度好。适合自动包装机包装 High moisture barrier. Very good oxygen and aroma barrier. Good oil resistance. High seal strength at low sealing temperature.

三、 抽真空包装可选择的材料结构:

材料结构 Material structure	特 性 Properties
NY/LLDPE	耐穿刺、耐低温，耐 100℃ 以内水煮。封口强度极好。Endures 100℃ and low temperature resistance. Good sealability and good vacuum. Tough and high impact resistance.
PET/LLDPE	耐低温，不耐穿刺。封口强度很好。耐 100℃ 以内水煮。。Endures 100℃ and low temperature resistance. Good sealability and good vacuum.

四、 饮料包装/吸吸果冻包装/水包装/酒类包装可选择的材料结构:

材料结构 Material structure	特 性 Properties
PET12/AL7/NY15/LLDPE60~100	最好的不透明结构，耐 100℃ 以内水煮或热罐装，耐穿刺。适合液体/流体包装。Excellent moisture, aroma and oxygen barrier, high temperature(in 100℃). Tough and high impact resistance. Good sealability.
PET12/奶白 LLDPE80~100	不透明，耐 100℃ 以内水煮或热罐装，不耐穿刺。适合液体/流体包装。白度高。Good moisture and in 100℃ temperature. The white is very good.
PET12/NY15/LLDPE60~100	是好的透明结构，耐 100℃ 以内水煮或热罐装，耐穿刺。适合液体/流体包装。Good moisture and in 100℃ temperature. Tough and high impact resistance. Good sealability.
PET12/NY15/奶白 LLDPE60~100	不透明，耐 100℃ 以内水煮或热罐装，耐穿刺。适合液体/流体包装。白度高。The white is very good. Tough and high impact resistance. Good sealability. The white is very good.

PET12/AL7/LLDPE60~100	不透明结构，耐 100℃ 以内水煮或热罐装，不耐穿刺。适合液体/流体包装。The white is very good. Good sealability.
AL2O3PET13/NY15/LLDPE60-100	高阻隔的透明的结构，耐 100℃ 以内水煮或热罐装，耐穿刺
SIO2PET13/NY15/LLDPE60-100	高阻隔的透明的结构，耐 100℃ 以内水煮或热罐装，耐穿刺

五、膨化食品包装可选择的材料结构:

材料结构 Material structure	特性 Properties
可热封 OPP/可热封 VMOPP	遮光、耐油、隔氧、防潮。封口强度较好、挺度好、可充气。中封骨处印刷材料可热封。Excellent moisture barrier, oil barrier, high oxygen and light barrier. Good sealing strength.
OPP/VMCPP	遮光、耐油、隔氧、防潮。封口强度一般，挺度较好、可充气。Excellent moisture barrier, oil barrier, high oxygen and light barrier.
CPP/可热封 OPP	遮光、耐油、隔氧、防潮。封口强度较好，挺度好。可充气，充气后较易爆。但印刷效果不是很理想，中封骨处印刷材料可热封。Excellent moisture barrier, oil barrier, high oxygen and light barrier. Good sealing strength.
可热封 OPP/VMCPP	遮光、耐油、隔氧、防潮。封口强度一般，挺度较好，可充气，充气后易爆。中封骨处印刷材料可热封 Excellent moisture barrier, oil barrier, high oxygen and light barrier.
OPP/VMPET/ CPP	遮光、耐油、隔氧、防潮。封口强度一般，挺度好，可充气，但充气后易爆。中封骨处印刷材料不可热封。Excellent moisture barrier, oil barrier, high oxygen and light barrier.
OPP/VMPET/PE	遮光、耐油、隔氧、防潮。封口强度很好，挺度一般。可充气，充气后不易爆袋。中封骨处印刷材料不可热封。Excellent moisture barrier, oil barrier, high oxygen and light barrier. High seal strength at low stiffness.
可热封 OPP/VMPET/ CPP	遮光、耐油、隔氧、防潮。封口强度一般，挺度好，可充气，充气后较易爆。中封骨处印刷材料可热封。Excellent moisture barrier, oil barrier, high oxygen and light barrier.
可热封 OPP /VMPET/PE	遮光、耐油、隔氧、防潮。封口强度较好，挺度较好，可充气，但充气后易爆中封骨处印刷材料可热封。Excellent moisture barrier, oil barrier, high oxygen and light barrier. High seal strength at low stiffness.
OPP20// (挤复) SPE15/VMPET12/PE35	遮光、耐油、隔氧、防潮。封口强度较好，挺度较好，可充气。充气后为易爆。中封骨处印刷材料不可热封。透水透气可达到 1-2 以下。Excellent moisture barrier, oil barrier, high oxygen and light barrier. High seal strength at low stiffness.

六、洗涤用品包装可选择的材料结构:

材料结构 Material structure	特性 Properties
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PET12/NY15/奶白 LLDPE80~150	耐酸碱、耐穿刺、遮光 Excellent moisture barrier, good low temperature resistance. Excellent light and aroma barrier. High chemical resistance. High puncture barrier.
PET12/NY/透明 PE	耐酸碱、耐穿刺、透明，不遮光
PET12/AL7/NY15/PE80-150	耐酸碱、遮光。Excellent moisture barrier, good low temperature resistance. Excellent light and aroma barrier. High chemical resistance.

七、 化妆品-面膜包装可选择材料结构:

材料结构 Material structure	特性 Properties
OPP/VMPET/PE	耐油、遮光 Excellent moisture barrier, high oxygen and light barrier. Good low temperature resistance.
OPP/AL/PE	耐油、遮光、隔水隔氧更好，柔软 Excellent moisture barrier, high oxygen and light barrier. Good low temperature resistance.
MATOPP/VMPET/PE	雅光效果、档次高，耐油、遮光 Excellent moisture barrier, high oxygen and light barrier. Good low temperature resistance. Have mat effect.
MATOPP/AL/PE	雅光效果、档次高、耐油、遮光、柔软度好 Excellent moisture barrier, high oxygen and light barrier. Good low temperature resistance. Have mat effect.

八、 杯盖膜可选择材料结构:

材料结构 Material structure	特性 Properties
PET/VMPET/易撕 PE50	遮光、易封口、易撕，撕拉力在 4-8N/15MM Excellent moisture barrier, high oxygen and light barrier. Good low temperature resistance. Have mat effect. Easily to tear.
KPET14/易撕 PE50	遮光、易封口、易撕。撕拉力在 4-8N/15MM
PAPER/AL/易撕 PE50	遮光、易封口、易撕口 Excellent moisture barrier, high oxygen and light barrier. Good low temperature resistance. Have mat effect. Easily to tear.
PET/AL/易撕 PE50	遮光、易封口、易撕，撕拉力在 4-8N/15MM Excellent moisture barrier, high oxygen and light barrier. Good low temperature resistance. Have mat effect. Easily to tear.

九、 高温蒸煮灭菌袋包装可选择材料结构:

材料结构 Material structure	特性 Properties
PET12/NY15/AL7/RCP70-100	不透明，遮光、耐 135℃，30 分钟灭菌。封口强度极好 Excellent moisture barrier, high oxygen and light barrier. High temperature. The sealing is very strong.
PET12/NY15/RCP70-100	透明，耐 135℃，30 分钟灭菌。封口强度极好 Excellent moisture barrier, high oxygen and light barrier. High temperature. The sealing is very strong.

PET12/AL7/RCP70-100	不透明，遮光、耐 135℃，30 分钟灭菌。封口强度极好，不耐穿刺。Excellent moisture barrier, high oxygen and light barrier. High temperature. The sealing is very strong.
AL2O3PET13/NY15/RCP70-100	透明高阻隔，耐 135℃，30 分钟灭菌。封口强度极好，耐穿刺
SIO2PET13/NY15/RCP70-100	透明高阻隔，耐 135℃，30 分钟灭菌。封口强度极好，耐穿刺，阻隔性比 AL2O3PET13/NY15/RCP70-100 更好
TMPET13/NY15/RCP70-100	透明高阻隔，耐 135℃，30 分钟灭菌。封口强度极好，耐穿刺，更适合抽真空。

十、 茶叶包装可选择的材料结构:

材料结构 Material structure	特性 Properties
PET12/VMPET12/PE	遮光、隔氧、保香、封口好。Good moisture barrier and oil resistance. Good aroma barrier. The sealing is very strong.
PET12/AL7/PE	遮光、隔氧、保香、封口好。阻隔性非常好 Good moisture barrier and oil resistance. Good aroma barrier. The sealing is very strong.
OPP/AL7/PE	遮光、隔氧、防潮、封口好。成本略高 Good moisture barrier and oil resistance. Good aroma barrier. The sealing is very strong.
OPP/VMPET12/PE	遮光、隔氧、防潮、封口好。Good moisture barrier and oil resistance. Good aroma barrier. The sealing is very strong.

十一、 糖果包装可选择的材料结构:

材料结构 Material structure	特性 Properties
OPP/PP	透明，枕式包装方式。挺度好。封口易皱，不平整，易漏气 Good moisture barrier, oil resistance, high transparency and stiffness. But the sealing strength is very weak, under 0℃ it will blow up.
PET/PP	透明，枕式包装方式，适合自动包装机包装，可充气。Good moisture barrier, medium oxygen and aroma barrier. High temperature end-use.
OPP/VMCPP	遮光、隔氧、枕式包装、封口强度一般，封口易起皱，挺度较好。Excellent moisture barrier, oil resistance, high oxygen and light- aroma barrier.
PET/VMCPP	遮光、隔氧、枕式包装、封口强度一般，封口较平整。Excellent moisture barrier, oil resistance, high oxygen and light- aroma barrier.
PVC30 (TWIST)	扭结透明膜。Good moisture resistance, excellent dead fold properties.
VMPVC30	扭结镀铝膜。Good moisture resistance, good light barrier, excellent dead fold properties.

十二、 咖啡包装可选择的材料结构:

材料结构 Material structure	特性 Properties
PET12/VMPET12/LLDPE	最常用的结构，不透明，潮、隔氧、保香，适合自动包装机包装，封口平整。Excellent moisture, aroma and oxygen barrier, High temperature. High seal strength at low sealing temperature.
PET12/AL7/LLDPE	不透明，防潮效果更好、隔氧、保香，适合自动包装机包装。Excellent moisture, aroma and oxygen barrier, High temperature. High seal strength at low sealing temperature.
PET12/AL7/NY15/LLDPE	不透明，防潮效果更好，耐冲击，隔氧、保香，适合自动包装机包装。Excellent moisture, aroma and oxygen barrier, High temperature. High seal strength at low sealing temperature. Tough and high impact resistance.
MATOPP/LLDPE	半透明，有哑光效果，封口强度好，但略皱。
MATOPP/VMPET12/LLDPE	不透明，有哑光效果，封口强度好，但略皱，具有阻隔紫外光、水、氧的作用。
KPET14/LLDPE	透明，不具有阻隔紫外光，但可以阻隔水氧，阻隔性一般。封口平整。

十三、 宠物包装袋

材料结构 Material structure	特性 Properties
PET/NY15/LLDPE	透明包装，防潮、保香、隔氧、耐冲击 Excellent moisture, aroma and oxygen barrier. Tough and high impact resistance.
PET12/LLDPE	透明包装，防潮、保香、隔氧 Excellent moisture, aroma and oxygen barrier.
NY15/LLDPE	透明，承重，阻隔性一般。
KPET14/LLDPE	透明包装，但具有一定的阻隔性，比 PET/LLDPE 的阻隔性更好。
PET12/NY15/奶白 LLDPE	防潮、保香、隔氧、耐冲击 Excellent moisture, aroma and oxygen barrier. Tough and high impact resistance.
PET12/VMPET12/LLDPE	防潮、保香、隔氧、遮光 Excellent moisture, aroma ,light and oxygen barrier.

十四、 农药/化工产品包装

材料结构 Material structure	特性 Properties
PET12/AL7/PE	耐腐蚀性。遮光，隔氧。封口平整。Excellent moisture and oxygen barrier, high chemical resistance. High seal strength at low sealing temperature.
OPP/AL7/PE	耐腐蚀性。遮光，隔氧。封口略有皱。Excellent moisture and oxygen barrier, high chemical resistance. High seal strength at low sealing temperature.

PAPER/NY/PE	耐腐蚀性、耐穿刺 Excellent moisture and oxygen barrier, high chemical resistance. High seal strength at low sealing temperature. Tough and high impact resistance.
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十五、 干果类包装

材料结构 Material structure	特性 Properties
KPET14/LLDPE	透明包装，具有一定的阻隔性，保香性好，封口强度高
PET12/LLDPE	透明包装，阻隔性没有 KPET/LLDPE 好。
NY15/LLDPE	透明包装，耐穿刺，阻隔性一般，可承重。
OPP/MPET12/LLDPE	不透明包装，阻隔紫外光及水氧
PET12/AL7/PE	耐腐蚀性。遮光，隔氧。封口平整。Excellent moisture and oxygen barrier, high chemical resistance. High seal strength at low sealing temperature.
OPP/AL7/PE	耐腐蚀性。遮光，隔氧。封口略有皱。Excellent moisture and oxygen barrier, high chemical resistance. High seal strength at low sealing temperature.

FLEXIBLE PACKAGING MATERIAL STRUCTURE

1. FROZEN FOOD can be used structure:

Material structure	Properties
OPP/LLDPE	Good moisture barrier and low temperature resistance. High seal strength at low sealing temperature.
PET/LLDPE	Good moisture barrier and low temperature resistance. The sealing strength is very good.
NY/LLDPE	Endures 100°C and low temperature resistance. Good sealability and good vacuum. Tough and high impact resistance.
OPP/PEARL	Good moisture barrier and low temperature resistance. Good light barrier and stiffness. Adapts to Ice creams wrapping.
PEARL	Good moisture barrier and low temperature resistance. Seal intension very weak. Adapts to Ice creams wrappig and waterish paper.
HEAT SEALABLE OPP	Low temperature resistance. Seal intension common. Adapts to Ice cream wrapping. And printed outside(on the surface).
MATOPP/LLDPE	Good moisture barrier and low temperature resistance. Posses Mat effect and the high class quality..
MATOPP/PL PEAR	Good moisture barrier and low temperature resistance. Adapts to Ice creams wrapping. The sealing strength is common.
MLLDPE	Can bears weight and low temperature resistance. Can be vacuumed.
LLDPE	Low temperature, low costs.

2. Bscuits, Melon seeds can be used structure:

Material structure	Properties
HEAT SEALABLEOPP	Good moisture barrier and good sealability for light products, e.g. the lavers.
OPP/OPP	Good moisture barrier, oil resistance, high transparency and stiffness. But the sealing strength is very weak, under 0°C it will blow up.
OPP/LLDPE	Low transparency and stiffness(but not better than OPP/OPP). Very good low temperature resistance and good sealability
OPP/PET/OPP	High moisture barrier, moderate oxygen barrier. But the sealing strength is very weak, under 0°C it will blow up.

KOP/OPP	High moisture barrier. Very good oxygen and aroma barrier. Good oil resistance.
OPP/VMCPP	Excellent moisture barrier, oil resistance, high oxygen and light barrier.
OPP/VMPET/OPP	Excellent moisture barrier, oil resistance, high oxygen and light barrier.
OPP/VMPET/PE	Excellent moisture barrier, oil resistance, high oxygen and light barrier. Good low temperature resistance.
MATOPP/OPP	High class quality. Posses the Mat effect. Can not be used under 0°C condition.
MATOPP/LLDPE	Good moisture barrier and low temperature(below -0°C) resistance. Posses Mat effect and the high class quality..
MATOPP/VMCPP	Good moisture barrier. High oxygen and light barrier. Good oil barrier. Posses Mat effect and the high class quality..
MATOPP/VMPET/OPP	Good moisture barrier. High oxygen and light barrier. Good oil barrier. Posses Mat effect and the high class quality.
MATOPP/VMPET/PE	Good moisture barrier. High oxygen and light barrier. Good oil barrier. Posses Mat effect and the high class quality.. At low sealing temperature.
PET/OPP	Good moisture barrier, medium oxygen and aroma barrier. High temperature end-use.
PET/VMCPP	Excellent moisture barrier, oil resistance, high oxygen and light-aroma barrier.
PET/VMPET/OPP	Excellent moisture barrier, oil resistance, high oxygen and light-aroma barrier.
PET/VMPET/PE	Excellent moisture barrier, oil resistance, high oxygen and light-aroma barrier. At low sealing temperature.
KPET/OPP	High moisture barrier. Very good oxygen and aroma barrier. Good oil resistance.
KPET/PE	High moisture barrier. Very good oxygen and aroma barrier. Good oil resistance. High seal strength at low sealing temperature.
KPET/VMCPP	High moisture barrier. Very good oxygen and aroma barrier. Good oil resistance.
KPET/VMPET12/PE	High moisture barrier. Very good oxygen and aroma barrier. Good oil resistance. High seal strength at low sealing temperature.

3. Vacuum packaging can be used structure:

Material structure	Properties
NY/LLDPE	Endures 100°C and low temperature resistance. Good sealability and good vacuum. Tough and high impact resistance.

PET/LLDPE	耐低温，不耐穿刺。封口强度很好。耐 100℃ 以内水煮。。 Endures 100℃ and low temperature resistance. Good sealability and good vacuum.
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4. Soput pouch packaging or Liquid packaging(for water&red wine,etc.) can be use structure:

材料结构 Material structure	特 性 Properties
PET12/AL7/NY15/LLDPE60~100	Excellent moisture, aroma and oxygen barrier, high temperature(in 100℃). Tough and high impact resistance. Good sealability.
PET12/奶白 LLDPE80~100	Good moisture and in 100℃ temperature. The white is very good.
PET12/NY15/LLDPE60~100	Good moisture and in 100℃ temperature. Tough and high impact resistance. Good sealability.
PET12/NY15/奶白 LLDPE60~100	The white is very good. Tough and high impact resistance. Good sealability. The white is very good.
PET12/AL7/LLDPE60~100	The white is very good. Good sealability.
AL2O3PET13/NY15/LLDPE60-100	High barrier and transparent structure, can be boil within 100℃ or hot filling, puncture resistance.
SIO2PET13/NY15/LLDPE60-100	High barrier and transparent structure, can be boil within 100℃ or hot filling, puncture resistance.

5. Puffed food or Snack food packaging can be used structure:

Material structure	Properties
HEAT SEALABLE OPP /HEAT SEALABLE VMOPP	Excellent moisture barrier, oil barrier, high oxygen and light barrier. Sealing strength is normal.
OPP/VMCPP	Excellent moisture barrier, oil barrier, high oxygen and light barrier. Sealing strength is low.
CPP/HEAT SEALABLE OPP	Excellent moisture barrier, oil barrier, high oxygen and light barrier. Good sealing strength.
HEAT SEALABLE OPP/VMCPP	Excellent moisture barrier, oil barrier, high oxygen and light barrier.
OPP/VMPET/OPP	Excellent moisture barrier, oil barrier, high oxygen and light barrier.
OPP/VMPET/PE	Excellent moisture barrier, oil barrier, high oxygen and light barrier. High seal strength at low stiffness.
HEAT SEALABLE OPP/VMPET/OPP	遮光、耐油、隔氧、防潮。封口强度一般，挺度好，可充气，充气后较易爆。中封骨处印刷材料可热封。 Excellent moisture barrier, oil barrier, high oxygen and light barrier.

HEAT SEALABLE OPP /VMPET/PE	遮光、耐油、隔氧、防潮。封口强度较好，挺度较好，可充气，但充气后易爆中封骨处印刷材料可热封。Excellent moisture barrier, oil barrier, high oxygen and light barrier. High seal strength at low stiffness.
OPP20// (coexturstion) SPE15/VMPET12/PE35	遮光、耐油、隔氧、防潮。封口强度较好，挺度较好，可充气。充气后为易爆。中封骨处印刷材料不可热封。透水透气可达到 1-2 以下。Excellent moisture barrier, oil barrier, high oxygen and light barrier. High seal strength at low stiffness.

6. Detergent packaging can be used structure:

Material structure	Properties
PET12/NY15/white LLDPE80~150	耐酸碱、耐穿刺、遮光 Excellent moisture barrier, good low temperature resistance. Excellent light and aroma barrier. High chemical resistance. High puncture barrier.
PET12/NY/Transparent PE	耐酸碱、耐穿刺、透明，不遮光
PET12/AL7/NY15/PE80-150	耐酸碱、遮光。Excellent moisture barrier, good low temperature resistance. Excellent light and aroma barrier. High chemical resistance.

7. Cosmetic Packaging can be used structure:

Material structure	Properties
OPP/VMPET/PE	耐油、遮光 Excellent moisture barrier, high oxygen and light barrier. Good low temperature resistance.
OPP/AL/PE	耐油、遮光、隔水隔氧更好，柔软 Excellent moisture barrier, high oxygen and light barrier. Good low temperature resistance.
MATOPP/VMPET/PE	雅光效果、档次高，耐油、遮光 Excellent moisture barrier, high oxygen and light barrier. Good low temperature resistance. Have mat effect.
MATOPP/AL/PE	雅光效果、档次高、耐油、遮光、柔软度好 Excellent moisture barrier, high oxygen and light barrier. Good low temperature resistance. Have mat effect.

8. Lidding film or Top web can be used structure:

材料结构 Material structure	特性 Properties
PET/VMPET/易撕 PE50	遮光、易封口、易撕，撕拉力在 4-8N/15MM Excellent moisture barrier, high oxygen and light

	barrier. Good low temperature resistance. Have mat effect. Easily to tear.
KPET14/易撕 PE50	遮光、易封口、易撕。撕拉力在 4-8N/15MM
PAPER/AL/易撕 PE50	遮光、易封口、易撕口 Excellent moisture barrier, high oxygen and light barrier. Good low temperature resistance. Have mat effect. Easily to tear.
PET/AL/易撕 PE50	遮光、易封口、易撕，撕拉力在 4-8N/15MM Excellent moisture barrier, high oxygen and light barrier. Good low temperature resistance. Have mat effect. Easily to tear.

9. Retortable pouch can be used structure

材料结构 Material structure	特性 Properties
PET12/NY15/AL7/RCP70-100	不透明，遮光、耐 135℃，30 分钟灭菌。封口强度极好 Excellent moisture barrier, high oxygen and light barrier. High temperature. The sealing is very strong.
PET12/NY15/RCP70-100	透明，耐 135℃，30 分钟灭菌。封口强度极好 Excellent moisture barrier, high oxygen and light barrier. High temperature. The sealing is very strong.
PET12/AL7/RCP70-100	不透明，遮光、耐 135℃，30 分钟灭菌。封口强度极好，不耐穿刺。Excellent moisture barrier, high oxygen and light barrier. High temperature. The sealing is very strong.
AL2O3PET13/NY15/RCP70-100	透明高阻隔，耐 135℃，30 分钟灭菌。封口强度极好，耐穿刺 High barrier and transparent structure, can be retort at 135℃ for 30mins, good sealing, puncture resistance.
SIO2PET13/NY15/RCP70-100	透明高阻隔，耐 135℃，30 分钟灭菌。封口强度极好，耐穿刺，阻隔性比 AL2O3PET13/NY15/RCP70-100 更好; High barrier and transparent structure, can be retort at 135℃ for 30mins, good sealing, puncture resistance, good barrier.
TMPET13/NY15/RCP70-100	透明高阻隔，耐 135℃，30 分钟灭菌。封口强度极好，耐穿刺，更适合抽真空。High barrier and transparent structure, can be retort at 135℃ for 30mins, good sealing, puncture resistance. Suitable for vacuumized.

10. Coffee or Tea packaging can be used structure:

材料结构 Material structure	特性 Properties
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PET12/VMPET12/PE	遮光、隔氧、保香、封口好。 Good moisture barrier and oil resistance. Good aroma barrier. The sealing is very strong.
PET12/AL7/PE	遮光、隔氧、保香、封口好。阻隔性非常好 Good moisture barrier and oil resistance. Good aroma barrier. The sealing is very strong.
OPP/AL7/PE	遮光、隔氧、防潮、封口好。成本略高 Good moisture barrier and oil resistance. Good aroma barrier. The sealing is very strong.
OPP/VMPET12/PE	遮光、隔氧、防潮、封口好。 Good moisture barrier and oil resistance. Good aroma barrier. The sealing is very strong.

11. Candy packaging can be used structure:

材料结构 Material structure	特性 Properties
OPP/OPP	透明，枕式包装方式。挺度好。封口易皱，不平整，易漏气 Good moisture barrier, oil resistance, high transparency and stiffness. But the sealing strength is very weak, under 0°C it will blow up.
PET/OPP	透明，枕式包装方式，适合自动包装机包装，可充气。 Good moisture barrier, medium oxygen and aroma barrier. High temperature end-use.
OPP/VMOPP	遮光、隔氧、枕式包装、封口强度一般，封口易起皱，挺度较好。 Excellent moisture barrier, oil resistance, high oxygen and light- aroma barrier.
PET/VMOPP	遮光、隔氧、枕式包装、封口强度一般，封口较平整。 Excellent moisture barrier, oil resistance, high oxygen and light- aroma barrier.
PVC30 (TWIST)	扭结透明膜。 Good moisture resistance, excellent dead fold properties.
VMPVC30	扭结镀铝膜。 Good moisture resistance, good light barrier, excellent dead fold properties.

12. Coffee packaging can be used structure:

Material structure	Properties
PET12/VMPET12/LLDPE	最常用的结构，不透明，潮、隔氧、保香，适合自动包装机包装，封口平整。 Excellent moisture, aroma and oxygen barrier, High temperature. High seal strength at low sealing temperature.
PET12/AL7/LLDPE	不透明，防潮效果更好、隔氧、保香，适合自动包装机包装。 Excellent moisture, aroma and oxygen

	barrier, High temperature. High seal strength at low sealing temperature.
PET12/AL7/NY15/LLDPE	不透明，防潮效果更好，耐冲击，隔氧、保香，适合自动包装机包装，。 Excellent moisture, aroma and oxygen barrier, High temperature. High seal strength at low sealing temperature. Tough and high impact resistance.
MATOPP/LLDPE	半透明，有哑光效果，封口强度好，但略皱。 Semi-transparent, with matt affection, good sealing, but a little bit crinkle.
MATOPP/VMPET12/LLDPE	不透明，有哑光效果，封口强度好，但略皱，具有阻隔紫外光、水、氧的作用。 Non-transparent with matt affection, good sealing, but a little bit crinkle, UV-Light, water and oxygen barrier.
KPET14/LLDPE	透明，不具有阻隔紫外光，但可以阻隔水氧，阻隔性一般。封口平整。 Transparent, without UV-light barrier, but with water & oxygen barrier, just common barrier, flat seal.

13. PET FOODS PACKAGING can be used structure

材料结构 Material structure	特性 Properties
PET/NY15/LLDPE	透明包装，防潮、保香、隔氧、耐冲击 Excellent moisture, aroma and oxygen barrier. Tough and high impact resistance.
PET12/LLDPE	透明包装，防潮、保香、隔氧 Excellent moisture, aroma and oxygen barrier.
NY15/LLDPE	透明，承重，阻隔性一般。 Transparent, load-barrier, common barrier
KPET14/LLDPE	透明包装，但具有一定的阻隔性，比 PET/LLDPE 的阻隔性更好。 Transparent packaging with certain barrier which better than PET/LLDPE.
PET12/NY15/奶白 LLDPE	防潮、保香、隔氧.耐冲击 Excellent moisture, aroma and oxygen barrier. Tough and high impact resistance.
PET12/VMPET12/LLDPE	防潮、保香、隔氧、遮光 Excellent moisture, aroma ,light and oxygen barrier.

14. Medical OR Chemical Packaging can be used structure:

材料结构 Material structure	特性 Properties
PET12/AL7/PE	耐腐蚀性。遮光，隔氧。封口平整。 Excellent moisture and oxygen barrier, high chemical resistance. High seal strength at low sealing temperature.

OPP/AL7/PE	耐腐蚀性。遮光，隔氧。封口略有皱。Excellent moisture and oxygen barrier, high chemical resistance. High seal strength at low sealing temperature.
PAPER/NY/PE	耐腐蚀性、耐穿刺 Excellent moisture and oxygen barrier, high chemical resistance. High seal strength at low sealing temperature. Tough and high impact resistance.

Dry Foods Packaging can be used structure:

材料结构 Material structure	特性 Properties
KPET14/LLDPE	Transparent pack, has certain barrier, good fragrance holding and sealing strengthen
PET12/LLDPE	Transparent pack barrier is worse than KPET/LLDPE
NY15/LLDPE	Transparent package, Puncture resistance, ordinary barrier, can bear heavy weight
OPP/VMPET12/LLDPE	Not transparent package, hinder the moisture ,oxygen and uv-light
PET12/AL7/PE	耐腐蚀性。遮光，隔氧。封口平整。Excellent moisture and oxygen barrier, high chemical resistance. High seal strength at low sealing temperature.
OPP/AL7/PE	耐腐蚀性。遮光，隔氧。封口略有皱。Excellent moisture and oxygen barrier, high chemical resistance. High seal strength at low sealing temperature.