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SUNRISE MATERIAL CO.,LTD.



SUNRISE MATERIAL

SUPPLIER OF FUNCTIONAL
CO-EXTRUDED MULTI-LAYER FILM

COMPANY INTRODUCTION



HONESTY &
COMMITMENT



CONTINUOUS
INNOVATION



WIN-WIN
COOPERATION



PURSUIT OF
EXCELLENCE



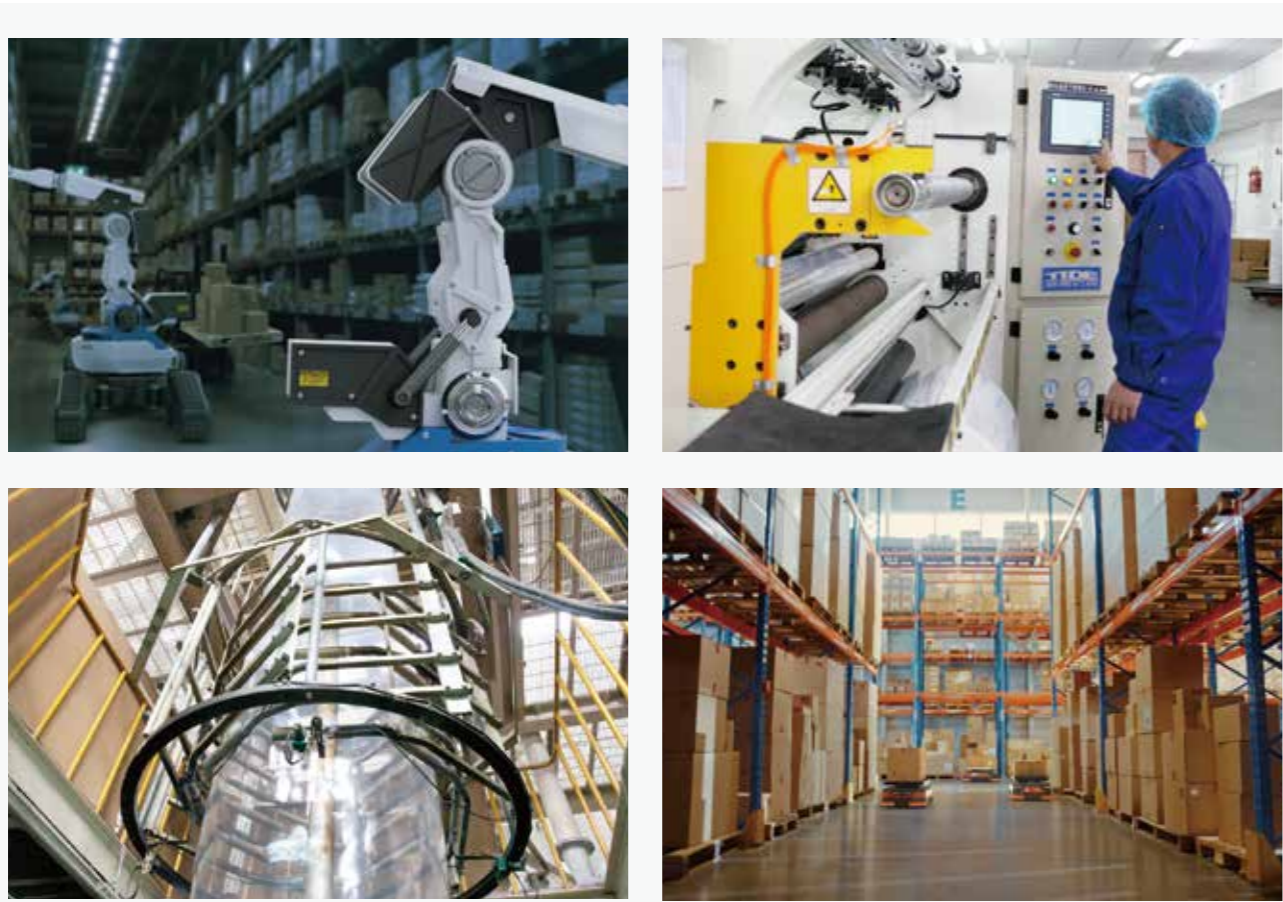
QUALITY ASSURANCE



An international standard quality system that ensures a strict product quality check and track process.



QUALITY CERTIFICATION



PRODUCTS



APPLICATION

FOOD PACKAGING

- | | |
|------------------|--------------------|
| Fresh Meat | Pumpable Foods |
| Processed Meat | Shelf Stable Foods |
| Sea Food | Fresh Produce |
| Dairy and Cheese | |

NON FOOD PACKAGING

- Pharmaceutical
- Personal Care
- Chemicals
- Electronic

SUNSHRINK®

SHRINK BAGS & SHRINK FILMS

HIGHLIGHTS

- HIGH SHRINKAGE
- EXCELLENT OPTICAL PROPERTIES
- BALANCED OXYGEN AND MOISTURE BARRIER PROPERTIES
- TEN COLOR PRINTING CAPABILITY



BASIC INFORMATION

SUNSHRINK® is the trade name for Sunrise's shrink bags. Vacuum shrink packaging provides unique protection to the protein products and offers an excellent packaging presentation.

SUNSHRINK® products possess excellent shrink properties. It also has balanced performance properties of oxygen and moisture barrier, optical, heat seal strength, and abuse resistances. SUNSHRINK® products are mainly used in packing of fresh meats, processed meats, fish, cheese, and poultries for frozen and refrigeration applications.

PRODUCT SERIES

| PRODUCT | FEATURES | PRODUCT | FEATURES |
|-----------------|--|--------------------|---|
| SUNSHRINK® SLD | <ul style="list-style-type: none">- EVOH BASED OXYGEN BARRIER PROPERTY- EXCELLENT OPTICAL PROPERTIES- EXCELLENT PRINTING CAPABILITY- EXCELLENT ANTI-FOG | SUNSHRINK® FORMING | <ul style="list-style-type: none">- EVOH BASED OXYGEN BARRIER PROPERTY- HEAT RESISTANT PA LAYER, SKIN- EXCELLENT PUNCTURE AND ABUSE RESISTANCE- SUPERIOR FORMABILITY |
| SHRINK FLOW-VAC | <ul style="list-style-type: none">-HIGH SHRINKAGE FILM FOR AUTO-PACKING APPLICATION-EXCELLENT SEAL ABILITY FOR FAST LINE SPEED-EVOH BASED OXYGEN BARRIER | SUNSHRINK® BG | <ul style="list-style-type: none">- EXCELLENT SHRINKAGE- SUPERIOR PUNCTURE RESISTANCE FOR BONE PROTECTION- EVOH BASED OXYGEN BARRIER |
| SUNSHRINK® DF | <ul style="list-style-type: none">- FOR FROZEN APPLICATION- EXCELLENT SHRINKAGE- MECHANICAL STRENGTH- EXCELLENT MOISTURE BARRIER PROPERTY | SUNSHRINK® DB | <ul style="list-style-type: none">- HIGH SHRINKAGE- PVdC BARRIER, OXYGEN BARRIER |
| SUNSHRINK® HA | <ul style="list-style-type: none">- HIGH SHRINKAGE- SUPERIOR TOUGH BAGS FOR HIGH ABUSE APPLICATION- EVOH BASED OXYGEN BARRIER | SUNSHRINK® EH | <ul style="list-style-type: none">- GOOD SHRINKAGE- EVOH BASED OXYGEN BARRIER- COOK-IN SHRINK APPLICATIONS |
| SUNSHRINK® HS | <ul style="list-style-type: none">- SUPER HIGH SHRINKAGE- PVdC BASED, OXYGEN BARRIER | | |

SUNFORM[®]

COEXTRUDED MULTI-LAYER THERMOFORMING FILM

- HIGHLIGHTS
- SUPERIOR FORMABILITY

SPECIAL SEALANT DESIGNED FOR VARIOUS APPLICATION

EXCELLENT OPTICAL PROPERTIES

OPTIMAL PERFORMANCE FOR DIFFERENT AUTOMATIC PACKING MACHINES



BASIC INFORMATION

SUNFORM[®] is the trade name for Sunrise's coextruded multilayer thermoforming films. SUNFORM[®] film is manufactured by rapid quenching technologies, using either cold water method or super cooled air blown technology. SUNFORM[®] film exhibits superior formability, excellent optical properties, and balanced mechanical properties. Sunrise offers both high oxygen barrier and medium oxygen barrier versions, which provide superior aroma, flavor and UV protection to meat products.

SUNFORM[®] films have a wide range of gauges designed for different forming depth requirements. The aggressive sealant is used to enhance film sealability for high speed packaging process. Easy peel sealant is readily available.

In the increasingly competitive forming film market, Sunrise offers excellent products at competitive pricing, thus established it's solid supplier position in global market.

PRODUCT SERIES

| PRODUCT | STRUCTURE | FEATURES |
|--------------------------|---------------|---|
| SUNFORM [®] AHE | PA/EVOH/PE | <div>- EVOH BASED OXYGEN BARRIER PROPERTY</div> <div>- HEAT RESISTANT PA LAYER, SKIN</div> <div>- THICKNESS RANGE IS 70~300 UM</div> |
| SUNFORM [®] AAE | PA/PE | <div>- PA BARRIER LAYER</div> <div>- EXCELLENT PUNCTURE AND ABUSE RESISTANCE</div> <div>- THICKNESS RANGE IS 70~300 UM</div> |
| SUNFORM [®] PPE | PP/PE | <div>- GOOD FORMING PROPERTY</div> <div>- BREATHABLE FILM FOR PACKING FRESH MEAT</div> <div>- THICKNESS RANGE IS 70-300 UM</div> |
| SUNFORM [®] AAP | PA/PP | <div>- HIGH MECHANICAL AT STRENGTH AND ABUSE RESISTANCE</div> <div>- PP SEALANT FOR RETORT APPLICATIONS</div> <div>- THICKNESS RANGE IS 70~300 UM.</div> |
| SUNFORM [®] AHP | PA/EVOH/PP | <div>- EVOH BASED OXYGEN BARRIER PROPERTY</div> <div>- HIGH MECHANICAL AT STRENGTH AND ABUSE RESISTANCE</div> <div>- PP SEALANT FOR RETORT APPLICATIONS</div> <div>- THICKNESS RANGE IS 70~300 UM</div> |
| SUNFORM [®] PHE | PP/PA/EVOH/PE | <div>- EVOH BASED OXYGEN BARRIER PROPERTY</div> <div>- PP SURFACE LAYER FOR USED TO RESIST CRIMP</div> <div>- THICKNESS RANGE IS 70~300 UM</div> |

SUNRSMAP®

MAP PACKAGING

HIGHLIGHTS

- RIGID THERMOFORMABLE SHEET
- VARIOUS FUNCTIONAL LIDDING FILMS FOR ANTI-FOG, EASY TEAR, EASY OPEN ETC
- DESIGNED FOR MAP APPLICATION
- OPTICAL PROPERTIES
- BALANCED MECHANICAL AND PHYSICAL PROPERTIES



BASIC INFORMATION

Gas flushed modified atmosphere packaging (MAP) is widely used in meat packaging applications to retain food freshness, extend the shelf life and promote the value.

SUNRSMAP® is the Sunrise’s trade name for MAP thermoforming rigid sheets.

SUNRSMAP® has a high oxygen barrier property and excellent sealing strength, which provide a long shelf life. SUNRSMAP® sealant can also be designed for easy peel, and/or anti-fog applications.

PRODUCT SERIES

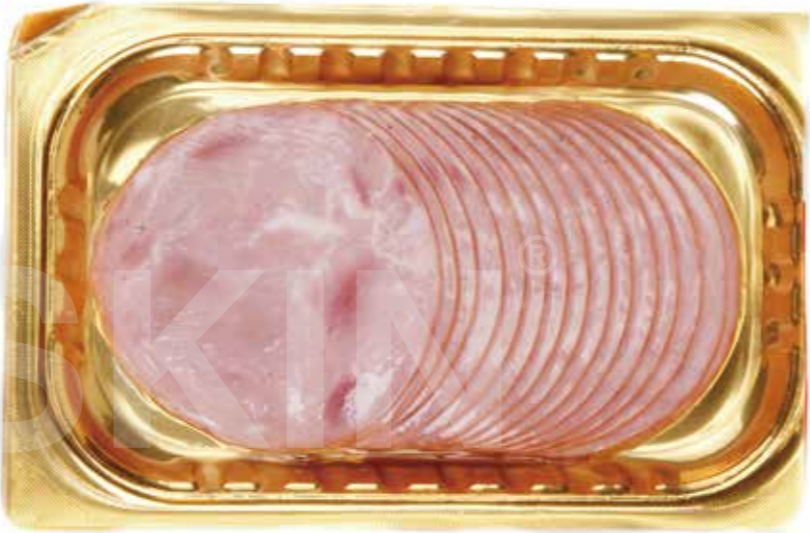
| PRODUCT | STRUCTURE | FEATURES |
|-----------|---------------------|--|
| SUNRSMAP® | APET/EHE APET/PE | - HIGH TRANSPARENCY - EXCELLENT THERMOFORMING PROPERTY - HIGH OXYGEN BARRIER |

SUNSKIN®

VACUUM SKIN PACKAGING

HIGHLIGHTS

- EXCELLENT VACUUM FORMING ABILITY
- HIGH OXYGEN BARRIER
- GREAT PACKAGE PRESENTATION



BASIC INFORMATION

SUNSKIN® products provide an excellent vacuum forming property, high oxygen barrier property and great package presentation. Sunrise's Skin films can seal to and peel off from various bottom substrates such as PE, PP, PS or PET. Sunrise offers both high barrier and no barrier VSP films for different packaging application.

PRODUCT SERIES

| PRODUCT | STRUCTURE | FEATURES |
|-------------|-------------|---|
| SUNSKIN® HB | EVOH BASED | - HIGH OXYGEN BARRIER - SUITABLE FOR PACKING OF FRESH MEAT, PROCESSED MEAT,CHEESE, SEAFOOD PRODUCTS. |
| SUNSKIN® NB | NON-BARRIER | - NON-BARRIER PERFORMANCE, GOOD PERMEABILITY - SUITABLE FOR MEAT PACKAGING IN FROZEN CONDITION |

SUNRSLID®

COEXTRUDED & LAMINATED LIDDING FILMS FOR RIGID & FLEXIBLE TRAYS

- HIGHLIGHTS
- EXCELLENT FUNCTIONAL SEALANTS

COEXTRUDED OR LAMINATES

EXCELLENT PRINTING CAPABILITY



BASIC INFORMATION

SUNRSLID® is the trade name of Sunrise’s lidding film series. SUNRSLID® is designed to be used as a top sealant film for both rigid tray and flexible thermoforming package applications. In this series, SUNRSLID® has two basic structures:

- Multi-layer, co-extruded film
- Adhesive laminated film

SUNRSLID® offers high oxygen barrier lidding film as well as medium barrier version film, depending on the specific application requirement. SUNRSLID® films are designed to have an excellent heat sealing property that can be sealed to different substrates, such as PE, PP, PS or PVC. Peelable sealant with or without anti-fog feature is available. Sunrise offers SUNRSLID® films with various widths and gauges.

PRODUCT SERIES

| PRODUCT | STRUCTURE | FEATURES |
|--------------|--|--|
| SUNRSLID® HB | PA/EVOH/PE BOPP/EOE BOPET/EOE BOPET/EHE | - HIGH OXYGEN BARRIER |
| SUNRSLID® MB | PA/PA/PE BOPA/PE | - PA BARRIER |
| SUNRSLID® NB | BOPP/PE | - BREATHABLE FILM FOR FRESH MEAT APPLICATION |
| SUNRSLID® RT | BOPA/RCPP | - FOR RETORT UNDER 121°C |
| SUNRSLID® SD | SPECIAL DESIGN | - FUNCTIONAL SEALANTS, SUCH AS ANTI-FOG, EASY PEEL, EASY TEAR ETC. |

SUNRSVAC®

MULTI-LAYER COEXTRUDED VACUUM POUCH

- HIGHLIGHTS
- EXCELLENT SEAL STRENGTH, HIGH TEMPERATURE RESISTANCE, AND SUPERIOR PUNCTURE RESISTANCE

A WIDE RANGE OF OFFERING IN TERMS OF SIZES, GAUGES AND DIFFERENT FUNCTIONALITY

SUNRSVAC® POUCHES CAN BE PRINTED UP TO 10 COLORS



BASIC INFORMATION

SUNRSVAC® is the trade name for Sunrise's vacuum pouch products. SUNRSVAC® pouches are the ideal choice for vacuum packaging applications, especially for fresh meats, processed meats, cheeses, seafood and other food products that require barrier properties for oxygen, aroma, flavor, and UV protection. All SUNRSVAC® pouches comply with FDA regulation for direct food contact.

Being the largest vacuum pouch supplier in North America, Sunrise offers a wide range of vacuum pouches, including medium barrier, high barrier, retort, and cook-in pouches.

PRODUCT SERIES

| PRODUCT | STRUCTURE | FEATURES |
|------------------|-----------------------------------|--|
| SUNRSVAC® AHE | PA/EVOH/PE, EVOH AS BARRIER LAYER | - HIGH OXYGEN BARRIER - EXCELLENT PUNCTURE RESISTANCE - THICKNESS RANGE IS 50~120 UM |
| SUNRSVAC® AAE | PA/PE, PA AS BARRIER LAYER | - MEDIUM BARRIER - HIGH PUNCTURE RESISTANCE - THICKNESS RANGE IS 50~120 UM |
| SUNRSVAC® AAE-ST | PA/PE, PA AS BARRIER LAYER | - EXCELLENT CLARITY AND LOW HAZE - EXCELLENT MECHANICAL PROPERTIES - MEDIUM BARRIER |

SUNFLEX®

PRINTED AND LAMINATED PACKAGING MATERIAL FOR SHELF STABLE FOODS

HIGHLIGHTS

- AGGRESSIVE SEALANT
- MULTIPLE FUNCTIONAL PROPERTIES
- EXCELLENT PRINT QUALITY



BASIC INFORMATION

SUNFLEX® is the trade name or a series printed laminates that is specifically for customized food packaging applications. SUNFLEX® offers different sealant materials to meet customers' specific needs, such as peelable, anti-static, anti-fog and retortable, etc. SUNFLEX® offers an oxygen and moisture barrier.



SUNRISE

COEXTRUDED & LAMINATED MULTI-FUNCTIONAL FILM

HIGHLIGHTS

FUNCTIONAL

DESIGN FOR CUSTOMER

BASIC INFORMATION

SUNRISE is the trade name for customized film products with specific functionality. Sunrise film includes antistatic film for car, cosmetic and toothpaste sheet, anti-fog film for high performance, high reflectivity film and aging resistance film, etc.

PRODUCT SERIES

- RETORT FILM AND POUCHES
- HIGH BARRIER VACUUM FILM
- HIGH BARRIER LAMINATED FILM
- BIB (BAG IN BOX) BARRIER FILM
- OTHER SPECIAL FUNCTIONAL FILM
- ANTI-FOG FILM
- ANTI-STATIC FILM
- ANTI-UV FILM
- PRODUCED FILM
- PROTECTIVE FILM

EXCELLENT SERVICE



THE KEY TO THE SUCCESS

High Quality
Competitive Pricing
Effective communication
Logistic management
Strong Technical Capability



ANTI-STATIC COEXTRUDED FILM



ANTI-UV FILM



ANTI-FOG FILM