

Product Information Sheet

Product

Sealing Film for PP with anti-fog treatment.

This mono PP sealing film provides a secure, high-performance lidding solution for sealable PP trays. Made from 90–95% polypropylene (PP), this mono-material film can be recycled together with PP trays, supporting a more circular packaging system. The film is equipped with an anti-fog feature and good oxygen barrier, making them suitable for MAP.

As a result, the film offers the same performance as conventional PP sealing films, but with the added benefit of its improved recyclability.

Material

The film is a mono film made from PP (90-95%).

Packaging

Inner: Polyethylene (PE)

Outer: Corrugated board box

Technical information

PROPERTIY	UNIT	METHOD	VALUE
Thickness	μ m		62
WVTR (Water vapour transmission) (38 ° C, 90% rh)	g/m ² /24 h	ISO15106-2/3	≤ 2
OTR (Oxygen transmission) (23 ° C, dry)	cm ³ /m ² /24h	ASTM D-3985	≤ 3
CO2 transmission rate	cm ³ /m ² /24h	calculated	≤ 12
Sealing temperature	°C		140-190 (recommended 150-170)

Area of use

The items can be used safely with all types of food under the following conditions:

- any long-term storage at room temperature or below
- Temperatures:
 - o 70°C for up to 4 hours, or
 - o 100°C for up to 2 hours (including hotfill conditions)
 - o 121°C for up to 1 hour
- Microwave oven (make sure to puncture the film before use if sealed to a box or tray to allow the steam to ventilate).

This film is not suitable for use in conventional ovens.

The process ability and the various properties of this film (resistance of the sealing, mechanical properties, antifog effect - this one may be lost during a thermic treatment) in these conditions must be validated by the customer.

High temperatures recommendations

The film can be used at temperatures up to 100°C according to the migration tests performed (see Test conditions), but at high temperatures, the material loses some of its mechanical properties. The pressure created when packed under MAP (modified atmosphere packaging) may cause the sealing to break.

Remove the film from the tray if it is used in temperatures above 100°C.

Low temperatures recommendations

In frozen conditions, plastic sealing film generally becomes more brittle due to the low temperatures, which can affect its flexibility and potentially its sealing properties. If the film is used in frozen condition, be aware:

- The film may become less flexible and may crack or tear more easily.
- Freezing can weaken the seal of the film over time. For food packaging, this could lead to freezer burn or moisture loss if the seal breaks or weakens.
- Handle frozen packages gently.

Sealing of Tray/Cover

When sealing the trays through welding, a small amount decomposition product is formed. As always when working with heating and melting materials, adequate ventilation is very important. In most cases a kitchen fan will be sufficient to evacuate the emissions that may arise.

Good sealing can be obtained with different kinds of seal films. Due to the variety of seal films and applications the sealability should be tested by the end user for best acceptance.

Product Safety

The product fulfils the following:

- Article 3, 11(5), 15 and 17 of Regulation (EC) No 1935/2004 (Framework regulation)
- EU Regulation 2023/2006/EC (GMP)
- EU Regulation 10/2011/EC with amendments (Plastic regulation)
- BfR recommendation XXVIII (adhesive)
- EU Regulation (EU) 2024/3190 on the use of bisphenol A (BPA) and other bisphenols
- Article 5 of Regulation (EU) 2025/40 on Packaging and Packaging Waste (PPWR) regarding the restriction of per- and polyfluoroalkyl substances (PFAS)
- Duni manufacturing units are certified according to the international quality system ISO 9001. They have also implemented or will implement the environmental management system ISO 14001.

Packaging and Packaging Waste

The product and its packaging comply with all essential requirements set out in Directive 94/62/EC on packaging and packaging waste, as well as the forthcoming Packaging and Packaging Waste Regulation (PPWR), Regulation (EU) 2025/40.

Storage conditions

In order to secure/ensure product safety the film must be stored in their original wrappings and protected from rain, direct sunlight or other sources of UV light. Any reels with their protective wrapping removed shall be stored either in recommended conditions or be repacked. The recommended storage conditions are in dry condition and 15 - 25°C. If storing conditions differ essentially from the recommendations, the reels shall be conditioned for 24 hours in recommended storing conditions prior to use. We recommend using the film within 6 months from the manufacturing date.

Environmental Aspects

Product

The PP plastic in this film is made from fossil sources.

Packaging

PE foil is made from fossil sources and is used for packaging purposes.

The corrugated board box is primarily made of recycled fibers.

End of Life

Collection, sorting and material recovery are all part of the recycling process. Recycling is dependent on local waste handling infrastructure. Ease and recyclability of a product depend on the type of material, composition and sometimes color.

This mono PP film is composed of 90-95 % pure PP, making it significantly easier to recycle compared to traditional multi-material films. It is compatible with existing plastic recycling streams.

The product and its packaging may be recycled with plastic or paperboard respectively but always consult with a local waste handler for recycling recommendations.

Energy Recovery

Incineration facilities for energy recovery are dependent on local infrastructure. Incineration for energy recovery is a good alternative when material recovery is not available by recycling.

Validity

This is issued 2026-01-15. It is revised when there is a change in the manufacturing process, in the product or in legislation.