

**scanfill** 

# Formidable foil & purposeful plastics

Standard series and customized  
plastic foil for packaging

MISSION: FULFILLING FOIL

# The Scanfill history

Since 2008 Scanfill has worked purposefully to deliver world-class packaging materials, at the same time succeeding with the world's challenging demands for environmental sustainability.

- 2006** Customers began asking the Polykemi Group for mineral-filled PP for packaging. Curious as we are, we started a project called Scanfill.
- 2008** Scanfill AB was founded. At this point of time, the objective was to produce granules.
- 2010** As we all know, the future brings changes and suddenly our first foil extruder was installed. It was a test machine, in order to be able to deliver foil rolls to customers for small-scale tests.
- 2014** Sales of foil material took off as we installed and put our second foil extruder to work. Today 95% of our sales consist of foil material.
- 2017** Time to level up. We upgraded our first foil extruder, enabling the production of EVOH and 7-layer structure foil production.
- 2018** We celebrated the 10th anniversary of Scanfill! Also, we installed a new granule extruder, one with twice the capacity compared to our existing one, to match the large demand for materials.
- 2019** Growing continues. We installed our third foil extruder which has a capacity for 7-layer structure production, with the possibility of reorganizing the layer structure for further development of our foil. The investment will streamline production being large enough to produce double width with double rolling stations.
- 2021** Further expanded opportunities. By installing a full-scale thermoforming machine, our prototype lab gained possibilities to further test materials and prototypes. Installation of three more foil-extruders largely widened our product program to also include PET and PS.
- 2022** Welcome Materialsmart! Our CO<sub>2</sub> calculator knocks the industry over when presenting detailed calculations on the amount of CO<sub>2</sub> emitted per kilogram produced Scanfill material.
- 2023** Boosted capacity and ISCC Plus certificate. By investing in larger and more complex material handling equipment, we increased our all-round capacity for managing recycled material. The ISCC PLUS certification guarantees total traceability in the production and delivery of bio-circular mass balance certified plastic raw material.

scanfill

Scanfoil PP  
Scanfoil PS  
Scanfoil PET  
Scanfill Foil PP  
Scanfoil PS ESD



Prevented Ocean Plastic



Color



Transparency

# Our products



PP, PS & PET



Plastic foil for the production of packaging for food, electronics, pharmaceuticals, and more.



Customizable width & length

# Scanfill on an ever-changing market

Selecting suitable plastic for the proper purpose



Up to 100% recycled material



Freezeable



Food approved

## Environmentally friendly materials

Scanfill AB is a Swedish knowledge-based company prone to continuously improve and develop our methods and materials. We deliver high quality, environmentally friendly packaging materials, fulfilling today's ecological demands concerning sustainability without compromising the purpose. We care about the earth's resources and work consciously to ensure our products have as little impact on the environment as possible.

We provide environmentally friendly packaging material, focusing on two material options: **Scanfoil** and **Scanfill Foil**. Scanfoil is our traditional packaging material based on PP, PS, or PET. Scanfill Foil is our other concept, half of which consists of minerals.

## Customer oriented, reliable deliveries

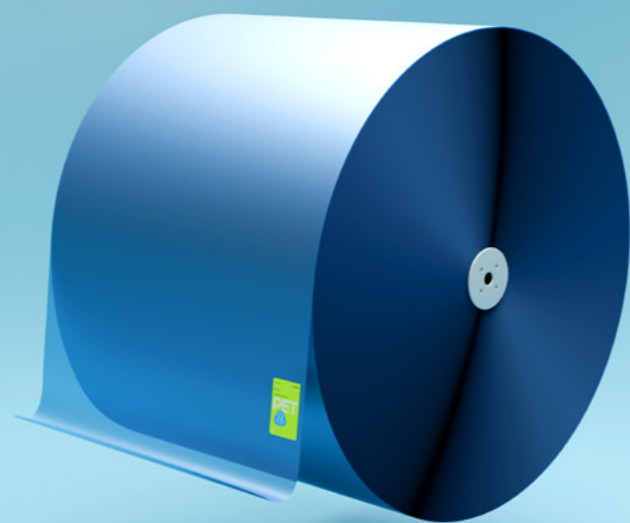
Scanfill AB is a family-owned company originally sprung from customer requests for mineral-filled PP for packaging. We take great pride in being a trustworthy supplier and the heritage in meeting customers' requests is manifested in our short delivery times, personal customer service and flexibility to adapt deliveries to customer requirements.

We care about effectivity and optimizing processes. We know time is money and words are binding. Being a part of Polykemi Group we are less vulnerable to external factors. By being family owned we are independent and influenced only by our very own ideas.

By keeping our promise to you, in turn you can guarantee high quality, on-time deliveries to your customer.

# Prevented Ocean Plastic™

Fill your material with purpose,  
protect the ocean from plastics.



## NEW! POP™ rPET

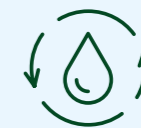
Prevented Ocean Plastic™ (POP), is a high quality, certified recycled plastic that meets regulatory health and safety standards.

The plastic has been collected from coastal areas at risk of ocean plastic pollution. The material is traceable back to source. Product specifications for POP rPET are equal to those of Scanfoil PET.



### High-Quality Plastic Raw Material

To ensure the high quality of Prevented Ocean Plastic™ rPET, the raw material is collected and sorted by hand. It is thoroughly cleaned before starting the process of becoming rPET granules and film. Once at Scanfill, we perform additional inspections to ensure the plastic maintains high quality.



### Recycled Raw Material from Coastal Areas

Prevented Ocean Plastic™ rPET is a plastic material that presents a solution to two problems. The first is to secure a supply of high-quality recycled PET, and the second is to contribute to pollution reduction by collecting discarded PET that might otherwise end up in the oceans, contaminating our environment and causing a significant risk to marine life.



### Traceable to Specific Area

The raw material for Prevented Ocean Plastic™ rPET is collected from various places around the globe, such as coastal areas in Southeast Asia, South America and the Galapagos region, Central America, the Mediterranean, and East Africa. The finished plastic can always be traced to the specific area from which the raw material originated.



**Empower the environment while boosting your business.**



**Unfold your perfect material and minimize your environmental footprint.**

Use our Materialsmart calculator to compare the material choices.

Visit our page and try the calculator

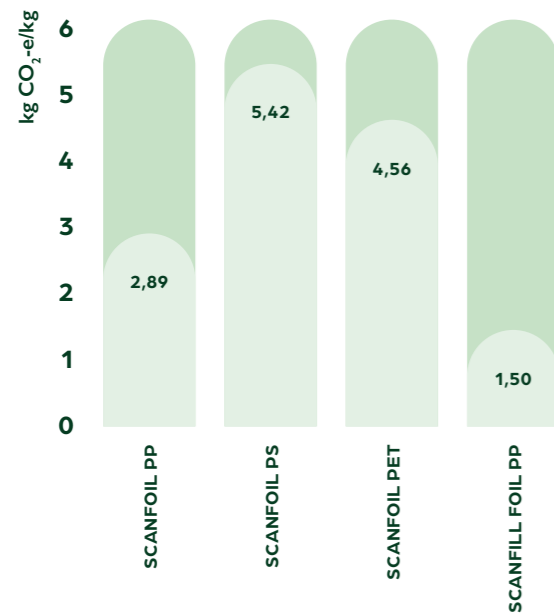
# Cutting costs and reducing CO<sub>2</sub> emissions



Visit our page and try the calculator

You can save both the climate and resources with materialsmart decisions – two flies in one hit, as we would say in Sweden. Material choices offer major possibilities to reducing your company’s climate footprint with the instant effect of also saving time and cutting costs.

Using scientific studies to develop a detailed calculation tool, our experts can analyze your company’s material choices and, considering your preferences, calculate how you can make your products more materialsmart.



## CO<sub>2</sub> certified materials

Our customers have the opportunity to receive a certificate with every material they order. This means that you, as a customer, get exact values for the emissions your material causes, values that make it easier for you to evaluate your materials and calculate your total emissions.

We calculate the final carbon footprint of your material using LCA before issuing your certificate. In terms of data and methodology, the certificate is founded on our third-party verified LCA according to ISO standards.

Contact us for more information about CO<sub>2</sub> certificates.



## Material advice

It's a plastic jungle out there. Our material expertise, combined with our capabilities for test runs and prototype development, allows us to have a comprehensive understanding of where our foil comes from and what it needs to perform after leaving our factory.

With us, you always get a personal contact, and our technicians are always close at hand. We accompany you from inquiry to production. When questions arise during production or for future adjustments, you get answers from experts who understand your business.

We'll help you to the best foil for your purposes.



**Sustainability Specialist & Technical Support**

Karl Banke  
+46 411 797 41  
karl.banke@scanfill.se



**Technical Support Manager**

Staffan Berndtsson  
+46 411 797 88  
staffan.berndtsson@scanfill.se

# Climate impact reduced by 54%

By replacing the materials in a salad bowl, weight, cost and climate impact were significantly reduced.



Freezable



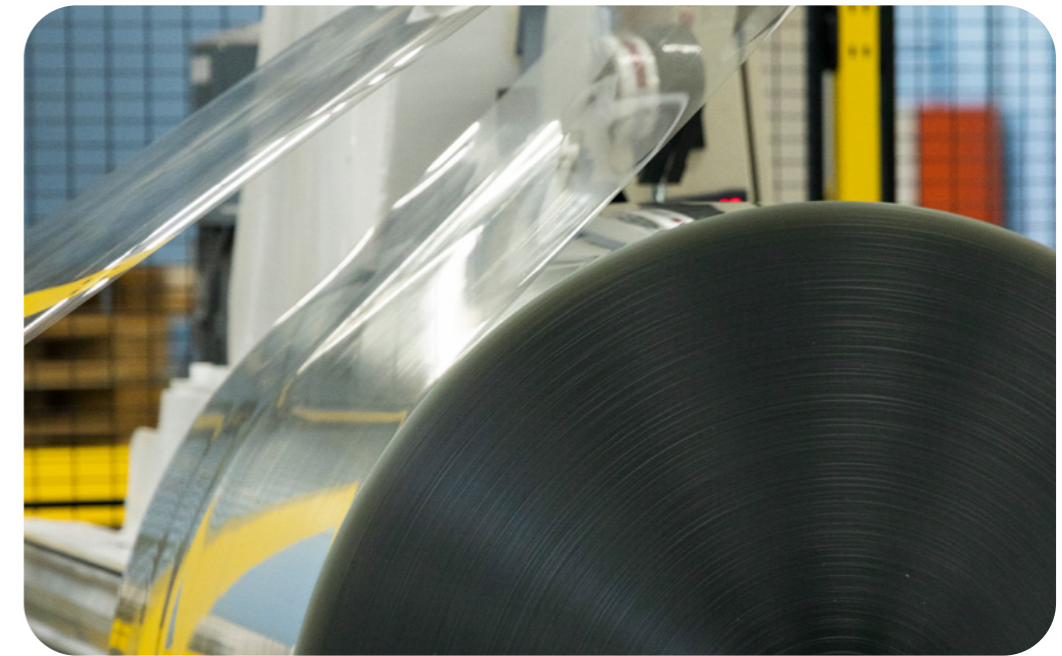
Food approved



Recyclable



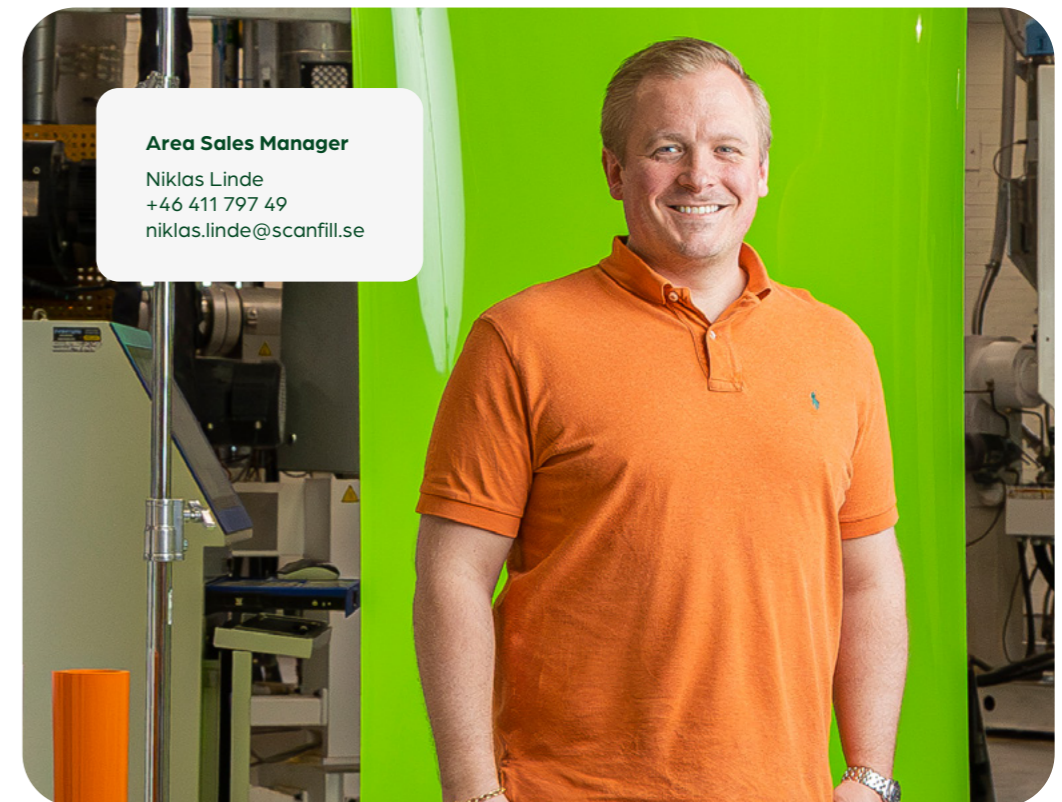
Microwaveable



Our customer replaced their material from high impact polystyrene (HIPS) to a highly transparent polypropylene (**Scanfoil PP HiClear**) while making themselves and the climate a great favor.

The bowl in HIPS weighed 20 g and had a climate impact of 93 g CO<sub>2</sub>-e/bowl. When replaced by Scanfoil PP HiClear, the climate impact was reduced by 54% and the weight of the packaging was reduced by 15%.

This was an act of carefully calculated Materialsmart bravery. Not only did our customer reduce both weight and climate impact, PP is the most requested material on the recycled market. And for the obvious bonus: on the market where this particular salad bowl is used, the packaging fee was reduced by 15%.



**Area Sales Manager**

Niklas Linde  
+46 411 797 49  
niklas.linde@scanfill.se



# Scanfoil PP

Scanfoil PP is a thermoforming foil with good forming properties, transparent with the choice of regular clarity or HiClear and is also available in colors.

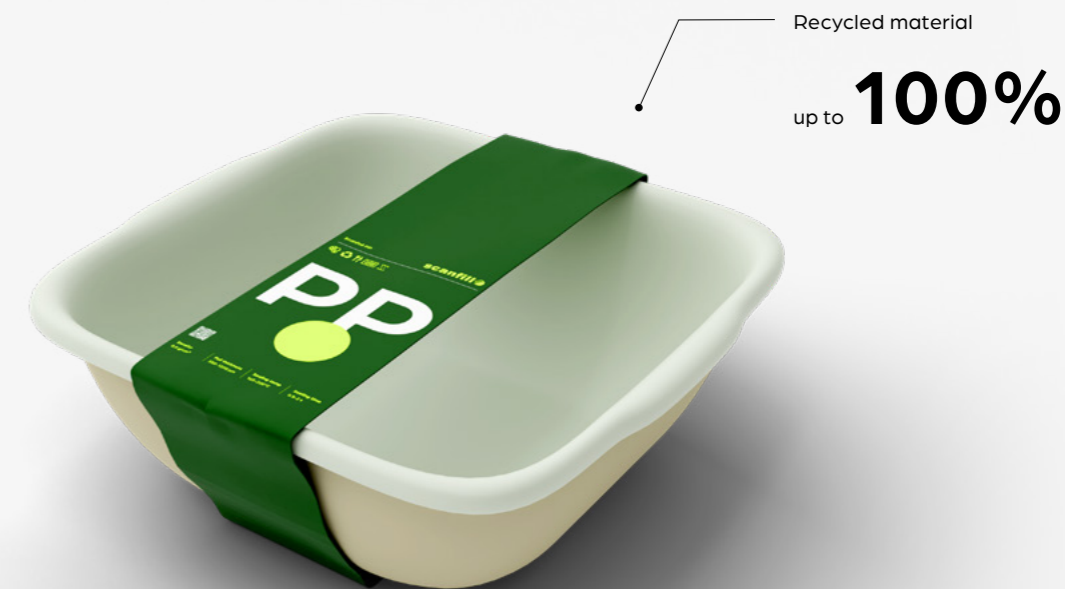
The HiClear transparency is comparable with APET. Scanfoil PP is food approved and can be used for chilled food, frozen food and ready meal for microwave oven heating.

The material is suitable for cold-, warm-, hot filling and retort sterilization. Including a barrier layer will result in a high performing

Modified Atmosphere Packaging (MAP) or skin pack system using a FFS or thermoforming machine.

Suitable for various applications and segments, e.g. electrical components, industrial applications and secondary packaging.

The Scanfoil PP is fully recyclable and the material group with the highest demand on the recycling market.



Foil thickness

**350–1200 µm**

Density

**0.9 g/cm<sup>3</sup>**

**THERMOFORMING  
SETTINGS**

Pre-heating cabinet ≈ 80°C  
Foil temperature ≈ 140–160°C

Foil width

up to **1450 mm**

Shrinkage

**1–3%**

Scan for product specifications



#### FEATURES

- Food approved
- Microwaveable
- Freezable
- Recyclable
- Low Density

#### OPTIONS

- Barrier (Low, Standard, High)
- ESD
- Easy Seal
- Anti-Fog
- BIO-circular

#### APPEARANCE

- Clear
- HiClear
- Colored
- Dual colors
- Carbon black free colors



**RECYCLED**  
30% PIR = 2,11 kg CO<sub>2</sub>e/kg

**VIRGIN**  
2,89 kg CO<sub>2</sub>e/kg



# Scanfoil PS

Scanfoil PS is a thermoplastic foil with good forming properties, transparent and available in various colors.

The material is suitable for thermoformed packaging applications. The snapping effect makes it suitable for break-off applications such as multi-packs. Scanfoil PS is also

available in a high impact version, both transparent and in various colors.

Scanfoil PS has good electrical insulation properties, is food approved, and has high hardness and high surface gloss.

The material is recyclable and can be reused in the production of new foil.

Recycled material

up to **100%**



Foil thickness

**350–1500 µm**

Density

**1.04–1.06 g/cm<sup>3</sup>**

**THERMOFORMING  
SETTINGS**

Pre-heating cabinet - **Not required**  
Foil temperature ≈ **120–180°C**

Foil width

up to **900 mm**

Scan for product specifications



#### FEATURES

- Food approved
- Freezable
- Recyclable

#### OPTIONS

- Anti-Fog
- Anti-Block
- ESD

#### APPEARANCE

- Clear
- Colored
- Carbon black free colors



**RECYCLED**  
100% PIR = 0,39 kg CO<sub>2</sub>e/kg

**VIRGIN**  
5,42 kg CO<sub>2</sub>e/kg



# Scanfoil PET

Scanfoil PET is a thermoplastic foil with good forming properties, transparent and available in various colors.

The material is suitable for thermoformed packaging applications as well as film applications, such as protective face shields. The material is fully recyclable and can contain up to 100% recycled material in the foil.

Due to Scanfoil PET transparency it is a material that provides a great presentation of products in packaging.

## New! Prevented Ocean Plastic™ rPET

Prevented Ocean Plastic™ (POP), is a high quality, certified recycled plastic that meets regulatory health and safety standards.

The plastic has been collected from coastal areas at risk of ocean plastic pollution. The material is traceable back to source. Product specifications for POP PET are equal to those of Scanfoil PET.



Recycled material  
up to **100%**

Foil thickness

**230–1000 µm**

Density

**1.35–1.40 g/cm<sup>3</sup>**

### THERMOFORMING SETTINGS

Pre-heating cabinet – **Not required**  
Foil temperature ≈ **120–140°C**

Foil width

up to **800 mm**

Shrinkage

**0.6–0.8%**

Scan for product  
specifications



### FEATURES

- Freezable
- Recyclable
- Food approved

### OPTIONS

- Anti-Fog
- Anti-Block
- ESD

### APPEARANCE

- Clear
- Colored
- Carbon black free colors



**RECYCLED**  
80% PIR = 1,17 kg CO<sub>2</sub>e/kg

**VIRGIN**  
4,56 kg CO<sub>2</sub>e/kg



# Scanfill Foil PP

Scanfill Foil PP is a mineral reinforced thermoforming foil with excellent forming properties, forms faster and better than PP and is available in all colors. The material is approved for multi-use.

The minerals significantly lower the CO<sub>2</sub> emissions and add an exclusive soft touch. Scanfill Foil PP is food approved and can be used for chilled food, frozen food and ready meal for microwave oven heating.

The material is suitable for cold-, warm-, hot filling and retort sterilization. Including a barrier layer will result in a high performing Modified Atmosphere Packaging (MAP) or skin pack system using a FFS or thermoforming machine.

Suitable for various applications and segments, e.g. electrical components, industrial applications and secondary packaging.

Mineral content

up to **52%**

Recycled material

up to **100%**



Foil thickness

**350–1300 µm**

Density

**0.9–1.4 g/cm<sup>3</sup>**

**THERMOFORMING  
SETTINGS**

Pre-heating cabinet ≈ 80°C  
Foil temperature ≈ 140–160°C

Foil width

up to **1450 mm**

Shrinkage

**0.8–1.5%**

Scan for product specifications



## FEATURES

- Food approved
- Microwaveable
- Freezable
- Recyclable

## OPTIONS

- Barrier (Low, Standard, High)
- ESD
- Easy Seal
- Multi-use

## APPEARANCE

- Colored
- Dual colors
- Carbon black free colors
- Matte or glossy surface



**RECYCLED**  
30 % PIR = 0,74 kg CO<sub>2</sub>e/kg

**VIRGIN**  
1,50 kg CO<sub>2</sub>e/kg



# Scanfoil PS ESD

Scanfoil PS ESD is a thermoplastic foil with good forming properties, and a choice of surface resistance level on both sides of the foil.

The material is suitable for thermoformed packaging applications with reduced surface resistance requirements, e.g. packaging for electrical devices sensitive for ESD.

We can offer a foil with surface resistance in three different levels, ranging from  $10^2$  to  $10^9 \Omega$ , on both sides of the foil, based on carbon nanotube technology. The volume

resistance will also be reduced, but typically to a dissipative level.

The material is recyclable, and can be reused in the production of new foil.

#### LEVELS OF RESISTANCE

SURFACE	VOLUME
Level 1 $10^2 - 10^4 \Omega$	$10^9 - 10^{11} \Omega$
Level 2 $10^3 - 10^6 \Omega$	$10^9 - 10^{11} \Omega$
Level 3 $10^5 - 10^9 \Omega$	$10^9 - 10^{11} \Omega$



Foil thickness

**350–1500  $\mu\text{m}$**

Density

**1.04–1.06  $\text{g}/\text{cm}^3$**

#### THERMOFORMING SETTINGS

Pre-heating cabinet - **Not required**  
Foil temperature  $\approx$  **120–180°C**

Foil width

up to **900 mm**

Scan for product specifications



#### FEATURES

Recyclable

#### OPTIONS

Anti-Block  
ESD

#### APPEARANCE

Colored black



**RECYCLED**  
90% PIR = 0,89 kg CO<sub>2</sub>e/kg

**VIRGIN**  
5,42 kg CO<sub>2</sub>e/kg

**Scanfill**

+46 411 170 30  
scanfill@scanfill.se

[www.scanfill.com](http://www.scanfill.com)

**scanfill**   
BRINGS OUT THE BEST IN PACKAGING