



scanfill 
BRINGS OUT THE BEST IN PACKAGING

Formidable foil & plastics with a purpose

SCANFILL GUIDE

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.

2022

Welcome Materialsmart! Our CO₂ calculator knocks the industry over when presenting detailed calculations on the amount of CO₂ emitted per kilogram produced Scanfill material.

2023

Boosted capacity. By investing in larger and more complex material handling equipment, we increased our all-round capacity for managing recycled material.



scanfill 

Our products

Scanfoil PP

Scanfoil PS

Scanfoil PET

Scanfill Foil PP

Scanfoil PS ESD

Scanfill on an ever-changing market

Selecting suitable plastic for the proper purpose

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.

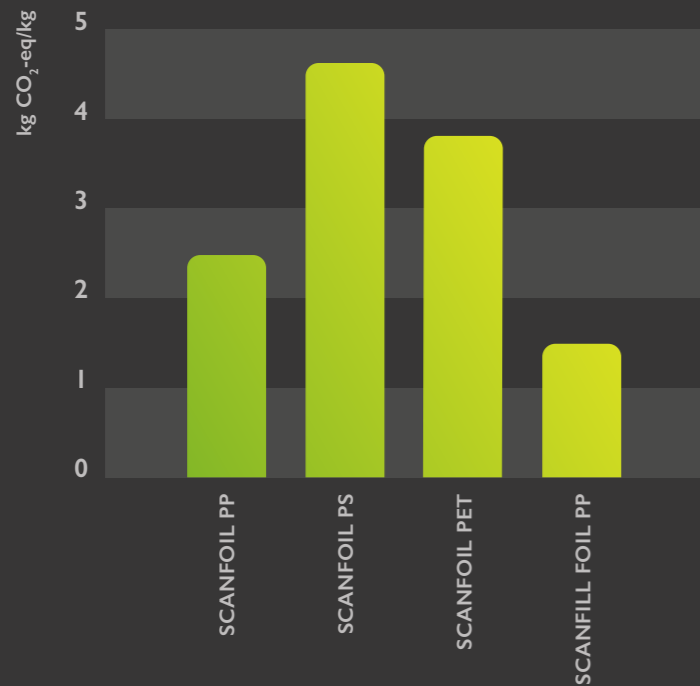
We care about effectivity and optimizing processes. We know time is money and words are binding. Being a part of Polykemi Group we are less vulnerable to external factors. By being family owned we are independent and influenced only by our very own ideas.

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

Cutting costs and reducing CO₂-emissions

You can save both the climate and resources with material- smart decisions – two flies in one hit, as we would say in Swedish. 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 material-smart.



Reduce CO₂ with **MATERIAL SMART.info**



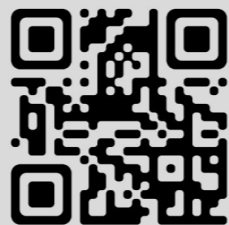
Empower the environment

while boosting your business.

Curious on how? Visit materialsmart.info

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

Use our Materialsmart calculator to compare the material choices.



A CASE OF CUSTOMER TRIUMPH

Climate impact reduced by 40%

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

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 47.4 g CO₂-e/bowl. When replaced by Scanfoil PP HiClear, the climate impact was reduced by 40% 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 0.30 €/kg.





Scanfoil PP

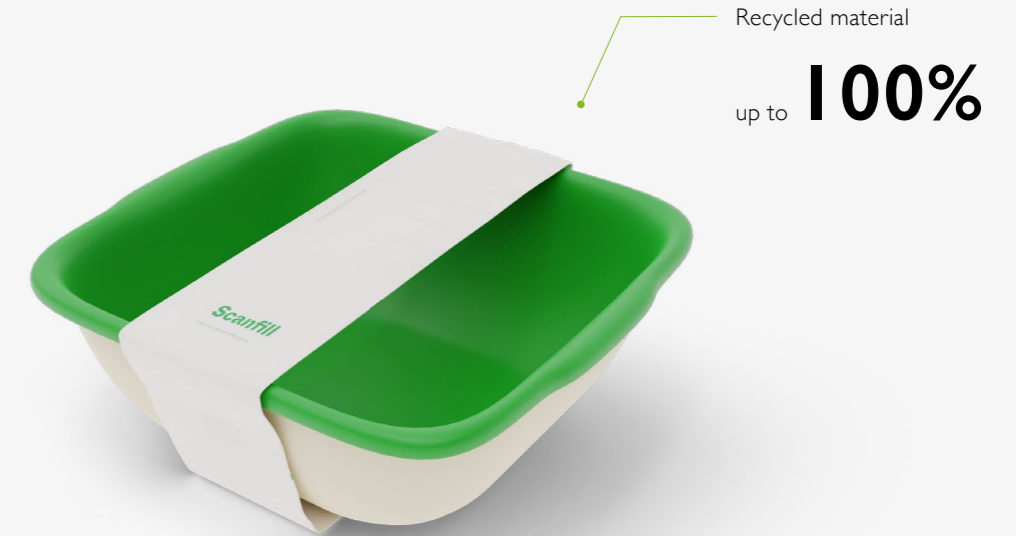
Scanfoil PP is a thermoforming foil with good forming properties, transparent with the choice of regular clarity or HiClear and is also available in colors.

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

Sealing temperature

165-200°C

THERMOFORMING SETTINGS

Pre-heating cabinet ≈ 80°C

Foil temperature ≈ 140-160°C

Foil width

up to **1450 mm**

Sealing time

0.5-2 s

Scan for product specifications



Density

0.9 g/cm³

Shrinkage

1-3%

FEATURES

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

OPTIONS

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

APPEARANCE

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



2.50 kg CO₂-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

Shrinkage

0.2-0.6%

THERMOFORMING SETTINGS

Pre-heating cabinet - **Not required**

Foil temperature ≈ 120-180°C

Foil width

up to **900 mm**

Scan for product specifications



Density

1.04-1.06 g/cm³

FEATURES

- Food approved
- Freezable
- Recyclable

OPTIONS

- Anti-Fog
- Anti-Block
- ESD
- Easy seal

APPEARANCE

- Clear
- Colored
- Carbon black free colors



4.65 kg CO₂-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.



Foil thickness

230-1000 μm

Sealing temperature

120-200°C

THERMOFORMING SETTINGS

Pre-heating cabinet - **Not required**

Foil temperature \approx 120-140°C

Foil width

up to **800 mm**

Sealing time

0.5-2 s

Scan for product specifications



Density

1.35-1.40 g/cm^3

Shrinkage

0.6-0.8%

FEATURES

- Freezable
- Recyclable
- Food approved

OPTIONS

- Anti-Fog
- Anti-Block
- ESD
- Easy seal

APPEARANCE

- Clear
- Colored
- Carbon black free colors



3.82 kg $\text{CO}_2\text{-e}/\text{kg}$



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 minerals significantly lower the CO₂ 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.

The Scanfill Foil PP material (PP) is recyclable and the material group with the highest demand on the recycling market.

Mineral content

up to **52%**

Recycled material

up to **100%**



Foil thickness

350-1300 µm

Sealing temperature

165-200°C

THERMOFORMING SETTINGS

Pre-heating cabinet ≈ 80°C

Foil temperature ≈ 140-160°C

Foil width

up to **1450 mm**

Sealing time

0.5-2 s

Scan for product specifications



Density

0.9-1.4 g/cm³

Shrinkage

0.8-1.5%

FEATURES

- Food approved
- Microwaveable
- Freezable
- Recyclable

OPTIONS

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

APPEARANCE

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



1.48 kg CO₂-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 μm

Shrinkage
0.2-0.6%

THERMOFORMING SETTINGS

Pre-heating cabinet **Not required**
Foil temperature $\approx 120-180^\circ\text{C}$

Foil width
up to **900 mm**

Density
1.04-1.06 g/cm^3

Scan for product specifications



FEATURES

Recyclable

OPTIONS

Anti-Block
ESD

APPEARANCE

Colored black



4.65 kg $\text{CO}_2\text{-e}/\text{kg}$



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