# AVK Plastics surface box recycling process

This infographic illustrates the complete recycling process of AVK Plastics' surface boxes.



## **Production** of plastics

By far most plastics are made out of **fossil fuels like oil and gas**. About four or five percent of the oil and gas extracted worldwide

## Virgin material in consumer goods

Plastics which are new and therefore suitable for all applications are called **virgin**. This virgin material is used in e.g. the food industry where strict food safety regulations apply, but also in other consumer goods like televisions.

If material specifications are wider than the intended range when material was produced, the material is called **off-spec**. This off-spec material can still be very suitable in multiple applications

## From product to shredded pieces

After a certain period of time plastic products are thrown away. From various sources, like recycle containers and waste incinerators, plastics are collected and eventually shredded to pieces.

This post cosumer plastic material is referred to as **first regrind** which means no more than that the material is used and regrinded for the first time. AVK Plastics uses first regrind polyamide and polyethylene to make surface

## Synthetic surface boxes

Each year thousands of tons recycled material are processed into high quality synthetic products. Incoming goods are thoroughly tested before processing

An automated mixing and transporting system guarantees a constant flow of raw materials and most of AVK Plastics' production is automated. This results in reliable processes, maximum efficiency and a constant quality of finished goods.

Once installed correctly, synthetic surface boxes of AVK Plastics have a very long

### Recycling and energy recovery

AVK Plastics strives to have a minimal impact to the environment by using recycled material which, in turn, can also be recycled or reused. At some point also durable surface boxes of AVK Plastics need to be replaced or removed. After the surface boxes have served their purpose they can be recycled or used for energy recovery.

different types of synthetic surface boxes ar

2300
tonnes is the maximum clamping force
AVK Plastics' injection moulding machine

percent less carbon footprint when choosing a synthetic surface box over a cast iron surface

>25

million surface boxes have been produced the production facility of AVK Plastics in Balk, the Netherlands.

35 ilograms is the max

**kilograms** is the maximum shot capacity of AVK Plastics' injection moulding machines.