



WE THINK  
GREEN!



# SHB GmbH

As the largest manufacturer of standard bottles and closures in Europe we have felt it our duty for 30 years to treat the environment with care and to use existing resources in a sustainable way. As a company that operates internationally, and as an ISO certified family business, we bear the responsibility of being able to bequeath to future generations a future in an environment which is still intact.

For this reason, we have always taken measures to minimise the contamination of our ecosystem through excess plastic. Our bottles are produced with particular regard to both energy savings and minimal usage of materials, and our short transport routes ensure environmentally friendly delivery.

Together with you as our customers we see the concept of sustainability as an opportunity to use our innovative strength to design new eco-friendly packaging solutions. We are working actively against the pollution of the natural environment and the world's oceans in that we are now able to make our range available to you in recycled and bio-plastics as an option. In addition, this reduces emissions - particularly CO<sub>2</sub> emissions - by as much as 75% in the production process when compared to goods made from virgin materials.

Through collaboration with our local partners, and our many years experience, we are able to offer you a variety of recycled materials geared towards your individual requirements. We look forward to starting a new chapter together with you, and to being able to have an effect - in keeping with our guiding principle: "Think global - act local"!



Through our production in many locations close to our customers, the environment suffers less of a burden from the impact of transport. Recyclable and reusable cartons and pallets contribute further to environmental conservation. Furthermore, we offer you bottles which are optimised in both weight and volume in order to avoid using excess material.

Care is taken in the production of our bottles to create a waste free production system. Tool-related material surpluses are immediately being regrinded. In this closed loop system the grinded material is added as a percentage to the mix.

## Superplus Material Bottle



# rHDPE personal care

## Approval:

Declaration of Conformity /  
Declaration of no objection  
for Cosmetics tested and  
approved by an accredited  
testing institute.

Approval for bottles from 50 ml for infants, children under  
3 years of age and adults for all types of cosmetics  
(rinse-off and leave-on products)

The existing colors of the  
bottles in virgin material can be  
adjusted to the recycling  
content in the best way  
possible. However, it must be  
noted that color fluctuations  
can occur within the recycling  
process. It depends on the  
color and percentage of  
the recycling material, on how  
serious it can affect the color  
tone. Bright and,- or „saturated“  
color tones have to, depending  
on the customer request be  
checked and sampled.



white coloring

natural



household  
plastic  
packaging waste

collected under EU  
collection schemes

sorted

# rHDPE WPR

Bottles from up to

# 97%

recycled HDPE



natural



white coloring



shredded into flakes, washed  
and processed into granulate

extrusion  
blow moulding

# rHDPE cosmetics

Bottles from up to

# 100%

recycled HDPE

Exclusive  
translucent  
on request



natural



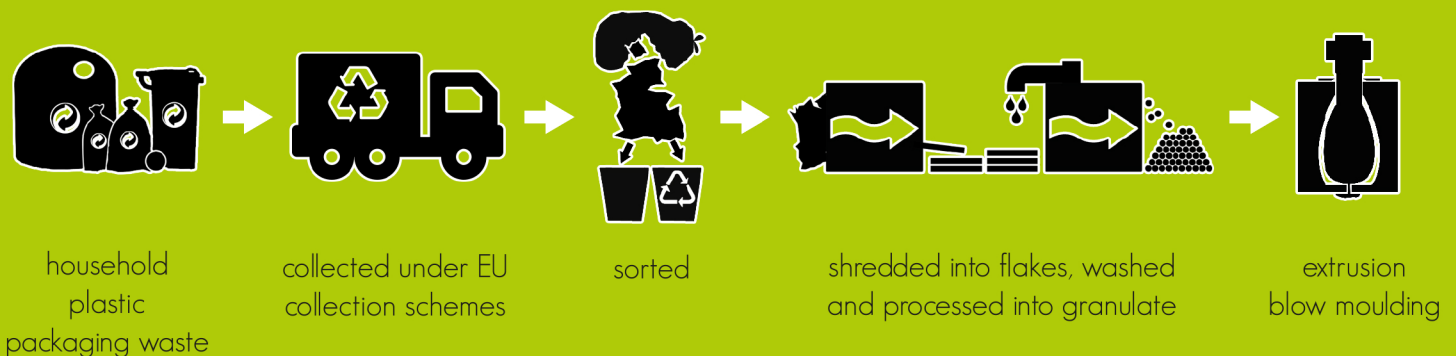
white coloring

Approval:

Declaration of Conformity / Declaration of no objection for Cosmetics tested and approved by an accredited testing institute.

Approval for bottles from 50 ml for infants, children under 3 years of age and adults for all types of cosmetics (rinse-off and leave-on products)

The existing colors of the bottles in virgin material can be adjusted to the recycling content in the best way possible. However, it must be noted that color fluctuations can occur within the recycling process, which depends on the color and percentage of



# rHDPE food grade



white coloring

natural

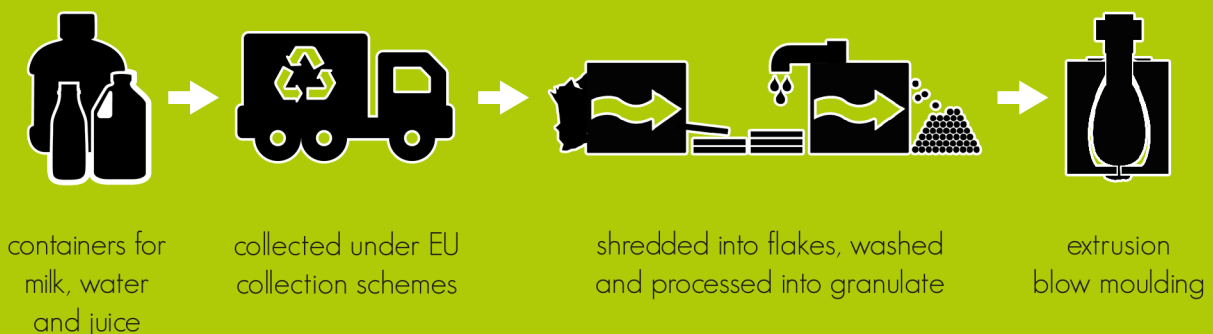
the recycling material, on how serious it can affect the color tone. Bright and,- or „saturated“ color tones have to, depending on the customer request be checked and sampled.

Bottles from up to  
**100 %**  
recycled HDPE

## Approval:

Food conformity straight from the Recycler. Compliant with all regulations and requirements of the EU standard, the Regulations (EG) 1935/2004 and (EU) 10/2011

about materials and objects made of plastic that are intended to be used with coming into contact with food - approval for all bottle sizes in the food and cosmetics sector



# rPET for all bottles

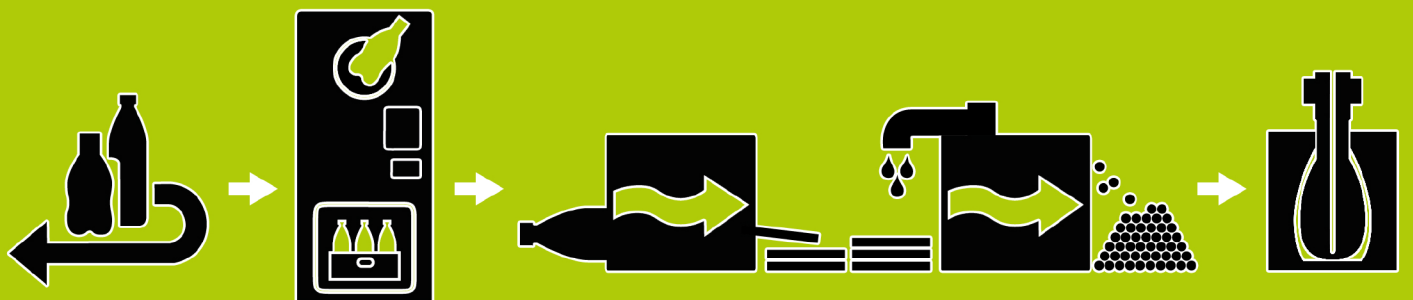
Bottles from up to  
**100%**  
recycled PET

Approval:  
Declaration of Conformity for Food

The transparency varies from yellowish to blue-grey.

The rPET bottles - produced in a single stage - can also be supplied color-matched. The colors can be tweaked to achieve an optimal match to virgin material. Compliant with all regulations and requirements of the EU standard, the Regulations (EG) 1935/2004 and (EU) 10/2011

about materials and objects made of plastic that are intended to be used with coming into contact with food - approval for all bottle sizes in the food and cosmetics sector



returnable  
bottles

collected under EU  
collection schemes

shredded into flakes, washed  
and processed into granulate

injection stretch  
blow moulding



# rPP for closures

## Approvals:

Declaration of Conformity / Declaration of no objection for Cosmetics

Compliant with all regulations and requirements of the EU standard, tested and approved by an accredited testing institute.

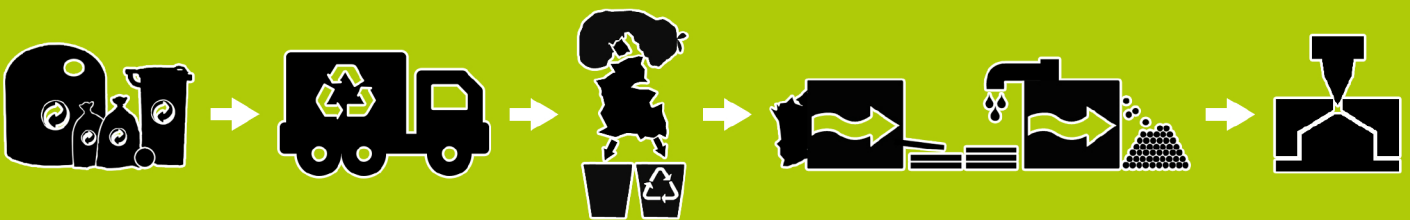
Approval for bottles from 30 ml for infants, children under 3 years of age and adults for all types of cosmetics (rinse-off and leave-on products)

The existing colors of the caps in virgin material can be adjusted to the recycling content in the best way possible. However, it must be noted that color fluctuations can occur within the recycling process, which depends on the color and percentage of the recycling material, on how serious it can affect the color tone. Bright and,- or „saturated“ color tones have to, depending on the customer request be checked and sampled.

Closures from up to

# 98%

recycled PP



Plastic packaging waste („yellow sack“) from households

are collected through EU collection systems

sorted

shredded, washed and processed into granules

formed into caps and lids through injection molding.

# rPP for jars

Jars from up to

# 98%

recycled PP

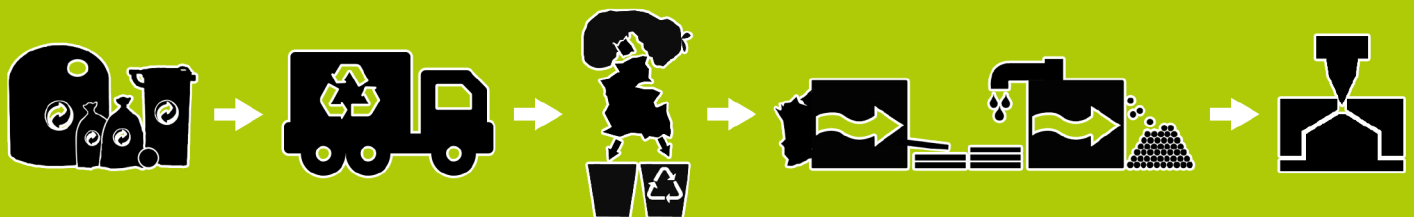
Approval:

Declaration of Conformity / Declaration of no objection for Cosmetics

Compliant with all regulations and requirements of the EU standard, tested and approved by an accredited testing institute.

Approval for jars from 50 ml for infants, children under 3 years of age and adults for all types of cosmetics (rinse-off and leave-on products)

The existing colors of the caps in virgin material can be adjusted to the recycling content in the best way possible. However, it must be noted that color fluctuations can occur within the recycling process, which depends on the color and percentage of the recycling material, on how serious it can affect the color tone. Bright and,- or „saturated“ color tones have to, depending on the customer request be checked and sampled.



Plastic packaging waste („yellow sack“) from households

are collected through EU collection systems

sorted

shredded, washed and processed into granules

formed into caps and lids through injection molding.

# Our Recommendation!

We recommend using 50-75% recycled material for the following reasons:

The recycling raw material is elaborately manufactured and therefore more expensive than virgin material.

>> A mix of materials fulfills both wishes: sustainability paired with cost savings.

Polymers are chains that are damaged during the recycling process, so the quality of the chain can deteriorate over time.

>> The percentage addition of virgin material has a stabilizing effect here.



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