## Use and Utilization of Carrier Bags and Vest Carrier Bags for Service Counter Goods in Germany

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- Aim of this study is to determine the consumption of carrier bags and vest carrier bags for service-counter goods in Germany.
- For plastic bags and vest carrier bags for service-counter goods the study will additionally assess the share of bags in circulation which were produced in Germany as well as the share of bags exported and imported.
- In addition to that, the study will calculate a collection and recovery rate for plastic bags. This is only possible by means of a sorting analysis.
- The study has been designed in cooperation with the German Association for Plastics Packagings and Films (Industrieverband Kunststoffverpackungen, IK), the German Retail Federation (Handelsverband Deutschland, HDE) and the platform for plastics and recovery (BKV Beteiligungs- und Kunststoffverwertungsgesellschaft).
- The study is based on the following definition for carrier bags:
- Carrier bags are bags generally used to transport items from retail locations to the place of consumption.
- Carrier bags have handles either in form of a strap, punching or similar.
- Carrier bags are dispensed to the end consumer at the checkout.
- The object of investigation has been defined to be the following:
- The study looks at both carrier bags dispensed by retail for a small fee as well as free carrier bags.
- Bags not dispensed at the checkout are considered to be vest carrier bags for servicecounter goods, not carrier bags.
- The study does not consider premium carrier bags designed for multi-use. Those are not subject of the investigation.
- The study focusses on plastic carrier bags; carrier bags made from biopolymers are not reported separately.


1. Evaluation of GVM database for market quantity and packaging samples
2. Research, processing and analysis of available data as regards distribution structures in Germany
3. Postal and phone interviews with retail companies
4. Analysis of sample handle bags
5. Store checks assessing prevalent handle bag formats and types in retail
6. Personal Interviews with branch managers and sales staff
7. Evaluation and preparation of results

Results Market Quantity - Carrier Bags
Verpackungsmarktforschung

- In 2012, German retail dispensed 6.1 billion plastic carrier bags. Thereof $52 \%$ cannot be re-used, especially small carrier bags (chemist, etc.).



## Plastic carrier bags

Population Germany 2012 according to the Fed. Stat. Office 80,412,762

Rounded figures

## total Items per PT <br> 3,1bn 39

8,675 t

## Vest carrier bags for counter service goods

- In 2012, German retail dispensed 3.1 billion vest carrier bags for servicecounter goods which usually aren't suitable for re-use.
- Vest carrier bags are mainly used for foods, thus are rarely used in non-food distribution.



## Consumption development of plastic carrier bags in Germany



## Per capita consumption of carrier bags in comparison to the EU average



Source for EU-27: EU-Commission Staff Working Document Impact Assessment - Accompanying the document Proposal for a directive of the European parliament and of the council amending Directive 94/62/EC on packaging and packaging waste to reduce the consumption of lightweight plastic carrier bags ( 05 Nov. 2013)

Waste Management Relevance


[^0]- The media and social research company TNS Emnid published a survey on carrier bags in December 2012
- The result clearly shows: "The majority uses carrier bags several times"

- I frequently use shopping bags several times
■ usually use shopping bags only once
- I don't know

Question: How often do you usually use shopping bags?
Base: 1,006 interviewees

Source: TNS Emnid and IPV industrial association paper and film packaging - Study on shopping bags, Dec. 2012

Note: "shopping bag" here is synonymously used with the term carrier bag. Vest carrier bags are generally used only once.

- $85 \%$ of the interviewees using carrier bags several times, stated that they are using carrier bags three times on average; more than half of the interviewees stated to use carrier bags even more than five times.

- The „last" use of carrier bags is often the use as a waste bag. This inevitably leads to a reduction of the recycling quote and an increase in energy recovery.


## Use of carriers for food and drugstore goods



- In Germany, 6.1 billion plastic bags were put in circulation in 2012. This corresponds to a tonnage of 86 kt or a quantity of 76 carrier bags per capita annually.
- Thereof
- 2.9 bn carrier bags are suitable for re-use
- further 3.2 bn carrier bags are usually not suitable for re-use.
- Additionally, in Germany, 3.1 billion vest carrier bags for service counter goods were put into circulation, mainly at the service counters in retailers‘ fruit and vegetable departments.
- In long-term view, the consumption of carrier bags in Germany is declining.
- The re-use of carrier bags in Germany is not uncommon and happens on a regular basis. Only 11 \% of the fast-moving consumer goods (FMCG) distributed through retail are taken home by the end consumer in plastic carrier bags used for the first time.
- The relevance of plastic carrier bags for waste management is very small. The bags‘ share of the overall urban waste is only $0.17 \%$; therof, $0.03 \%$ are dedicated to plastic carrier bags not suitable for re-use.
- The final use of plastic carrier bags as waste bags occurs on a considerable scale. Carrier bags, in comparison to other packaging films of comparable size, thus end up more often in residual waste.
- The attention devoted to carrier bags by EU resource policies and the German media is mainly due to the problems posed by littering and marine littering in other European countries. Causes for this are mainly consumer conduct and inadequate waste disposal structures.
- Carrier bags have a $3 \%$ share of the overall consumption of plastic packaging ( $8 \%$ in the overall consumption of flexible plastic packaging). This comparison illustrates the very limited relevance of carrier bags to waste management in Germany.
- In Germany, both retail and end consumers use carrier bags predominantly in a responsible manner. Carrier bags are used modestly and are often used several times.
- The German per-capita consumption of carrier bags is considerably lower than the European average.
- The German system of the recycling and disposal of packaging successfully ensures that plastic bags are conveyed to mechanical recycling and energy recovery after usage.
- A steering intervention to the disadvantage of plastic carrier bags with a film thickness of < $50 \mu$ could also have undesirable avoidance reactions, such as switching to carrier bags with a higher wall thickness.
- The German food retailing industry pledged not to provide consumers with carrier bags free of charge ("bag penny") already 40 years ago, thereby setting a highly effective signal for product responsibility.
- The fact that food retail dispenses carrier bags for a fee led to end consumers attaching greater value to carrier bags. The final use of bags as waste bags is also a consequence of this perception of value.


## Appendix

- The study is based on the following definition of vest carrier bags for servicecounter goods:
- Vest carrier bags for service-counter goods are all bags filled directly by the sales staff and dispensed to the customer as well as bags filled by the customers themselves and brought to the checkout.
- Vest carrier bags for service-counter goods are not dispensed at the checkout but usually filled before going to the checkout.
- Vest carrier bags for service-counter goods have two long carrying straps to fasten and close the bag by knotting the handles.
- In this study these bags are considered in addition to carrier bags as vest carrier bags are similar in size and film thickness to those of small carrier bags.

| Distribution Channel | Weight in <br> g | Thickness <br> in $\mu \mathrm{m}$ | Re-Use |
| :--- | :--- | :--- | :--- | :--- |

$\left.\begin{array}{l|l|l|l|l}\hline \text { Weight in } & \text { Thickness } \\ \text { in } \boldsymbol{\mu m}\end{array}\right)$ Re-Use

- Purchase amount and number of articles per carrier bag are only slightly connected. Example:
- An average of 2 articles costing $45 €$ is transported in a carrier bag from a clothing shop, while a bag from the DIY store carries 9 articles to the value of less than $25 €$.


Value of Packaged Goods in EUR
——Number of Packaged
Items
Typical vest carrier bags for fruit and vegetables

Small carrier bag used in pharmacies, book trade, coffee shops

Typical flexi-loop carrier bag used in food retailing; suitable for re-use

Typical flexi-loop carrier bag used in food retailing; suitable for re-use

| Typical carrier bag used in clothing stores, DIY stores and <br> electrical trade | $70 \mu \mathrm{~m}$ |
| :--- | :--- |

Abbreviation Description

| EU-27 | 27 member states of the European Union (June 2013) |
| :--- | :--- |
| PT | Population |
| FMCG | Fast Moving Consumer Goods |
| kt | kiloton |
| bn | billion |
| PE / PE-LD / PE-HD | Polyethylene / PE-LowDensity / PE-HighDensity |
| t | ton |
| $\mu \mathrm{m}$ | $10^{-6} \mathrm{~m}$, micron | Verpackungsmarktforschung

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[^0]:    Sources: Destatis "Waste Balance" 2011; GVM

