HERMA

HERMA reThink

“Rethink and look for sustainable alternatives.”

If the life span of every product is perceived as a continuous cycle, appropriate decisions in the interests of maximising sustainability already have to be made when selecting the raw and input materials for every step in the production and finishing chain. HERMA’s innovative adhesive materials give your production team this option right from the start. It’s therefore likely that you can adopt a new approach much more often than you think, and prompt a positive change in favour of the three R’s – recycle, reduce, renew – with your own products.

HERMA reThink

Recycle

“Recycle everything you can neither avoid nor re-use.”

This maxim was rigorously applied when developing an adhesive material that in 2019 won the German Packaging Prize in the sustainability category. Equal proportions of the recycled polyethylene for the product HERMA rPE white originate from industrial and household waste. Another example, provided by the HERMA wash-off adhesive 62Rpw, facilitates continual material recovery. For recycling PET bottles, it achieves a wash-off score of 100 percent when used with film labels.

Reduce

“Reduce resource consumption and waste.”

HERMA received its second German Packaging Prize in the sustainability category in 2019 for its InNo-Liner system. By dispensing with liner altogether, the labels eliminate the need for laborious waste disposal or recycling once they are applied. A further HERMA development combines thinner label papers with special adhesives, so that the label stock in the Thin Range likewise consumes exceedingly small quantities of precious resources.

Renew

“Embrace renewable energies and raw materials.”

Grass is an example of a naturally renewable raw material. And a novel method of processing dried grass fibre for use in paper production serves as a model of resource preservation. Measured against wood pulp, its use can reduce energy and water consumption by as much as 97 and 99 percent respectively. Because it is sourced from domestic ecological compensation sites, moreover, the grass paper used in label production by HERMA also significantly reduces CO_2 emissions. HERMA is likewise committed to sustainable forestry as defined by the FSC® and PEFC.

Wash-off adhesive promotes recycling

Successively transforming used drinks bottles into new ones is no longer a vision, but has long since become a reality. Used with PET bottles, as well as PET, PE and PP packaging, the special wash-off label adhesive 62Rpw enables recycling operators to produce high-purity pellets that do not contain any detrimental residues – no remains of paper or film labels, and no residual adhesive.

MATERIAL	COATING WIDTH
HERMAcoat greaseproof (228) / 62Rpw / 523	1520 mm
HERMA PO transparent (846) / 62Rpw / 517	1520 mm
HERMA PP white extra tc (880) / 62Rpw / 517	1520 mm
HERMA PP transparent tc (885) / 62Rpw / 517	1520 mm
HERMA rPE PCR white (856) / 62Rpw / 517	1520 mm

Wash-off adhesive for return logistics

In logistics processes, typically in the production and distribution of food and plants, profitability depends on efficient internal material flows and flawless goods transportation and delivery. It is therefore essential that the ubiquitous load carriers – trays, crates, stacking boxes and the like – can be relabelled many times over. Labels coated with the wash-off adhesive 62P, which can be removed without leaving any residues, are key to both this type of re-use and the recycling of single-use containers.

MATERIAL	COATING WIDTH
HERMAtherm D (919) / 62P / 515	1520 mm
HERMAtherm G BPA-frei (907) / 62P /515	1520 mm
HERMAextracoat (242) / 62P / 523	1520 mm

Compostable label stock

In cases where waste cannot be avoided, it should at least be recyclable or suitable for composting – as exemplified by the label stock consisting of the material HERMAextracoat (grade 242) or HERMAtherm Bio (grade 908) and the special adhesive 62N. It satisfies the benchmark for industrial compostability and, following certification according to EN 13432, is allowed to bear the seedling logo. This paves the way for fully biodegradable packaging, including the applied labels, without any impairment of labelling efficiency.

MATERIAL	COATING WIDTH
HERMAextracoat (242) / 62N / 517	1520 mm
HERMAtherm Bio (908) / 62N / 517	1520 mm

Support the recycling process

Recycle

Recycled materials

Growing demand for recovered paper

We are stepping up the use of recycled paper and rapidly expanding our range. Among the focal points are coated papers, which are especially attractive in view of their broad application scope and the increasing demand being generated by label users. HERMAcoat Recycling (236), for instance, is produced entirely from post-consumer recycled (PCR) material – waste paper recovered from private households.

MATERIAL	COATING WIDTH
HERMAlaser Recycling (167) / 62Dpc / 527	1520 mm
HERMAcoat Recycling (236) / 62Gpt / 523	1520 mm

PE film label manufactured entirely from recycled material

Produced exclusively from recycled polyethylene, the HERMA label material rPE is thought to be the first of its kind intended for use in the manufacture of PE film labels. It responds well to coating during production and offers very good printability no matter what the technique, from flexo and offset to screen and digital printing. This solution therefore perfectly brings together sustainability and superior product characteristics. And with the completely new HERMA rPP adhesive, we are following through in the booming recycled film segment.

MATERIAL	COATING WIDTH
HERMA rPE white (855) / 62A / 517	1000 mm
HERMA rPE white (855) / 62Xpc / 517	2000 mm
HERMA rPE PCR white (856) / 62Xpc/ 517	1520 mm
HERMA rPP white (883) / 62Xpc / 517	1520 mm

Reduce

First ever practicable solution for shipping labels

Among all the known linerless labelling concepts, the HERMA InNo-Liner system is regarded as the first practicable solution of its kind. It peerlessly satisfies the picking pace and other requirements imposed by logistics and distribution centres. On top of that, the label stock is compatible with multi-colour preprinting. The cost is much the same as that of a conventional self-adhesive label, and affordability is enhanced by eliminating the considerable expense of disposing of liner.

MATERIAL	COATING WIDTH
HERMAextracoat (242) / 82S	2000 mm
HERMAwhite (601) / 82S	2000 mm
HERMAtherm G BPA-free (907) / 82S	2000 mm
HERMAtherm top M (912) / 82S	2000 mm

Optimising consumption, reducing costs

Doing business in a sustainable way always entails optimising the consumption of resources. By way of its lighter Thin Range label stock, consisting of thinner label papers and specially adapted adhesives, HERMA is enabling label printers to save costs, space and resources. Especially lightweight and supple, these materials ensure durable and reliable labelling on diverse surfaces, as well as outstanding printability.

MATERIAL	COATING WIDTH
HERMAcoat light (238) / 61Dps / 523	1520 mm
HERMAlaser Blatt 50 (133) / 61Dpc / 512	1302 mm & 1736 mm
HERMAtherm G BPA-free (907) / 61Dps / 543	2000 mm
HERMAtherm C (902)/62Dps/543	2000 mm

Renew

From field to paper

The paper that is probably the kindest to the environment worldwide is produced largely from grass or, stated more accurately, from sun-dried hay. Processing these fibres to produce paper for use in the new label material HERMAnature fieno more effectively preserves resources and generates less CO_2 than production operations using virgin fibre or even recycled pulp. Paper produced from grass is already widely used for diverse types of food packaging, for example, and is especially popular with companies that champion sustainable packaging.

MATERIAL	COATING WIDTH
HERMAnature fieno (340)/62A/523	1000 mm

Sustainable forestry

The compliance of HERMA's adhesive material production practices with the strict FSC® requirements has been certified since back in 2012. The seal of the independent Forest Stewardship Council is recognised worldwide as a mark of environment-friendly, ethical and economically sustainable forestry management. Users and consumers who purchase and utilise products bearing the very familiar FSC® logo are actively contributing to sustainability around the world. HERMA can offer an FSC®-compatible grade of practically any paper available on the market. It has also been supplying PEFC-certified paper label stock since 2008. In this programme the entire process chain is monitored by independent experts – from the forest and pulp to the adhesive material and finished label.

MATERIALS AVAILABLE ON REQUEST

(Re)assure

Compliance with EN 13430 verified by INGEDE

A self-adhesive label becomes an integral part of the product to which it is applied. In order to ensure that the item as a whole can be recycled, the use of an appropriate label material is essential. It's also important to bear in mind that this material will also undergo recycling at a later stage. The HERMA adhesives 62A and 62D have passed the recyclability tests performed by the industry association INGEDE at The Technical University (TU) of Darmstadt. And, by way of screening, they can be reliably eliminated from the paper recycling process.

Bisphenols and phenols in thermal papers

The paper industry uses bisphenols and phenols as colour developers in thermal papers. A ban on the use of thermal papers containing more than 0.02% bisphenol A, imposed by Commission Regulation (EU) 2016/2235, entered force on 2 January 2020. HERMA has gone one step further: a large number of its HERMATop thermal papers are produced entirely without bisphenol chemicals. These papers also satisfy the requirements of the Swiss Ordinance SR 814.14. The company likewise produces some its HERMAtherm papers without any phenol chemicals.

HERMA food-safe adhesives

In the food industry, labels are applied either to the packaging (indirect food contact) or directly to the produce, e.g. to meat, cheese or fruit (direct food contact). In order to prevent undesirable constituents penetrating the food, adhesives and label materials are tested according to the requirements of official bodies, such as the BfR (German Federal Institute for Risk Assessment) or the FDA (US Food and Drug Administration). HERMA supplies numerous food-safe products with adhesives that have been certified by the German institute ISEGA.

Avoiding migration

Many food packaging films do not offer sufficient barrier functionality. When labels are applied, substances such as resins contained in the adhesive can pass through the film and contaminate the food. Reducing the quantities of such substances, however, generally impairs the adhesive properties. A way out of this dilemma is provided by innovative multi-layer technology, which enables HERMA to offer a migration-safe range encompassing all of its standard adhesives.

European Chemicals Regulation – REACH

As a general rule, HERMA adhesives are not subject to mandatory registration pursuant to REACH. This is because they do not contain any "substances of very high concern" in concentrations falling within the scope of compulsory registration. We nonetheless support the purpose of REACH, namely to enhance the safety of chemicals in the interests of protecting human health and the environment. We accordingly use only raw, secondary and finishing materials that, where necessary, are registered pursuant to REACH.

Published by:
HERMA GmbH
Self-adhesive Materials Division
Fabrikstraße 16
D-70794 Filderstadt
Tel. +49 (0) 711 / 7702-189
milos.kojic@herma.de

Responsible for content:
Milos Kojic

Copy, composition, design:
Carapetyan & Krämer
www.carapetyan.com

Picture credits:
Shutterstock: title page and pages 2, 3, 4, 5, 6, 7, 9, 10, 11
iStock: pages 6 und 8
Other images: HERMA

Subject to change, errors excepted.

www.herma-material.de

Visit us on LinkedIn:
linkedin.com/showcase/hermamaterial

GBH10001/04.2020