



ISO 50001

N° B-15-16829-EN

Within a certification audit the organization

Hahn Kunststoffe GmbH

at the location

Gebäude 1027, 55483 Hahn-Flughafen
and further locations according to the appendix

has proved that an energy management system was established and is
successfully applied in accordance with the requirements of the
international standard

ISO 50001

Issue of June 2011



for the following activity

Processing of used plastic packaging to form agglomerates or pellets, precast production in extrusion, intrusion, compression and injection molding; Sales of various products made of recycled plastic for subsequent use as profiles, finished parts and systems

This certificate is valid from 20 January 2016 until 04 March 2019.

Berlin, 20 January 2016

Prof. Dr.-Ing. Jan Uwe Lieback
Director

Andreas Lemke
Head of Certification Office



The scope of the certificate N° B-15-16829-EN for the organization

Hahn Kunststoffe GmbH

covers the following locations:

N°	Location	Address	Scope
1	Hahn Kunststoffe GmbH	Gebäude 1027 55483 Hahn-Flughafen	Processing of used plastic packaging to form agglomerates or pellets, precast production in extrusion, intrusion, compression and injection molding; Sales of various products made of recycled plastic for subsequent use as profiles, finished parts and systems
2		Damaschke Weg 24 06366 Köthen	
3		Gewerbestraße 2 21781 Cadenberge	

Berlin, 20 January 2016

Andreas Lemke
Head of Certification Office



URKUNDE

HAHN KUNSTSTOFFE GMBH
55483 HAHN-FLUGHAFEN, DEUTSCHLAND

WIRD AUFGRUND DES ZEICHENBENUTZUNGSVERTRAGES NR. 24295
DAS RECHT VERLIEHEN, FÜR DAS PRODUKT

HANIT® RECYCLINGPRODUKTE AUS POLYOLEFINEN BODENABDECKSYSTEME
(ABDECKPLATTEN, DIELEN, PLATTEN, RASENGITTERSTEINE, STEGBOHLEN, WABEN,
TERRASSENDIELEN) FARBEN: BRAUN, GRAU

DAS NACHSTEHEND ABGEBILDETE UMWELTZEICHEN ALS
AUSWEIS FÜR DIE BESONDERE UMWELTFREUNDLICHKEIT ZU FÜHREN.



SANKT AUGUSTIN, DEN 17. JULI 2013

Kau

VORSITZENDER DER GESCHÄFTSFÜHRUNG

RAL gGmbH



Certificate of Compliance

Certificate Number: 0007-10-16-BOE-HB

Type of Certification:

Monitoring audit – Full certificate

For the recycling plant:

Hahn Kunststoffe GmbH , PE Film Recycling

Am Flughafen, D-55483 Hahn Flughafen, Germany

Process	Input material	Presen-tation	Equipment capacity (t/a)	Post-consumer material accepted for recycling in previous 12 months (t)	Output of recycling process	Average post-consumer recycled content of polymer / product (%)	Average pre and post-consumer recycled content of polymer / product (%)	Level of traceability (1 to 2)	Washed material
Material recycling of kerbside collected post-consumer waste	Flexible film of PE, PP	Pressed bales AVV e.g. 150102 or 191204	40.483	23.039	Agglo-merates	98 %	98 %	2	Dry cleaning
	Mixed plastics PE, PP, PS			15.607	Agglo-merates	98 %	98 %		

Audited by:	Holger Boes	
Date of audit:	2015 Sept. 17 th	
Period of evaluation:	2014 Sept.01 st until 2015 Aug.31 th	
Period of validity:	2015 Oct.11 th until 2016 Oct.10 th	
		Auditor's logo Bad Soden-Salmünster, 30.09.2015

The recycling process and associated management systems of the aforementioned company for the waste plastic and site shown has been audited and have met the required standards for certification under the EuCertPlast Scheme for European Plastic Recyclers.

This plant is the last recipient of plastics waste and produces products.

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 D-63628 Bad Soden-Salmuenster
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 Fax: +49 (0) 60 56 91 29 40 0
 eMail: boes@hbtech.eu

EuCertPlast c/o EuPR
 Avenue de Corthenberg 71
 B-1000 Brussels
 Phone: +32 27 42 96 82
 Fax: +32 27 32 63 12
 eMail: info@plasticsrecyclers.eu



CERTIFICATE OF MEMBERSHIP 2016

This certifies that :

Hahn Kunststoffe GmbH

is member of Plastics Recyclers Europe

Antoon Emans
President

Antonino Furfari
Director

Alexandre Dangis
Managing Director

DEKRA Automobil GmbH Handwerkstr. 15 D-70565 Stuttgart

Hahn Kunststoffe GmbH
Mr. Florian Görgen
Gebäude 1027
55483 Hahn-Flughafen

DEKRA Automobil GmbH

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Date 08.02.2017
Page 1 of 4

Test Report No.: 55255348 EN

Version 1

Client: Hahn Kunststoffe GmbH
Mr. Florian Görgen
Gebäude 1027
55483 Hahn-Flughafen

Date of order: Dec 27, 2016
Sample received: Jan 9, 2017
Number of samples: 1 sample
Sample designation: Bench board / palisade of hanit
Scope of investigation: PAH according to AfPS GS 2014:01
AOX and PCB in eluate
Testing period: 09.01.2017 - 08.02.2017

Test result:

- see following pages -

**DAkkS-accredited Analytical Laboratory D-PL-11060-03-00 in Stuttgart and Halle.
CPSC Identification Number for DEKRA Automobil Laboratory Services: 1236**

Sample no:	55255348001			
Sample designation:	Bench board / palisade of hanit			
Sample description:	Recycling plastic light brown			
Parameter	Unit	Result	LQ	Test method
PAH from materials according to AfPS				
Benzo(a)pyrene	mg/kg	< 0.2	0.5* / 1**	AfPS GS 2014:01 PAK / QMA 2001.1284
Benzo(e)pyrene	mg/kg	< 0.2	0.5* / 1**	
Benzo(a)anthracene	mg/kg	< 0.2	0.5* / 1**	
Benzo(b)fluoranthene	mg/kg	< 0.2	0.5* / 1**	
Benzo(j)fluoranthene	mg/kg	< 0.2	0.5* / 1**	
Benzo(k)fluoranthene	mg/kg	< 0.2	0.5* / 1**	
Chrysene	mg/kg	< 0.2	0.5* / 1**	
Dibenzo(a,h)anthracene	mg/kg	< 0.2	0.5* / 1**	
Benzo(g,h,i)perylene	mg/kg	< 0.2	0.5*	
Indeno(1,2,3-cd)pyrene	mg/kg	< 0.2	0.5*	
Acenaphthylene	mg/kg	< 0.2	10*	
Acenaphthene	mg/kg	< 0.2		
Fluorene	mg/kg	< 0.2		
Phenanthrene	mg/kg	0.2		
Anthracene	mg/kg	< 0.2		
Fluoranthene	mg/kg	< 0.2		
Pyrene	mg/kg	< 0.2		
Naphthalene	mg/kg	0.3	2*	
Sum of 18 PAH	mg/kg	0.5	10*	
* Limits for products according to AfPS GS 2014:01 for materials category 2 (materials with foreseeable skin contact for longer than 30 seconds or repeated short-term skin contact).				
** Limits for plastic and rubber parts of products according to REACH VO (EC) 1907/2006, Anhang XVII (VO No 1272/2013).				
PCB in eluate				
PCB 28	µg/L	< 0.01	-	EN ISO 6468
PCB 52	µg/L	< 0.01	-	
PCB 101	µg/L	< 0.01	-	

LQ: Limit of quantification

Worked out:
Person in charge:

DEKRA Automobil GmbH – Handwerkstr. 15 – 70565 Stuttgart
Dr. Magdalena Krause Phone +49.711.7861-3542

PCB 138	µg/L	< 0.01	-	EN ISO 6468
PCB 153	µg/L	< 0.01	-	
PCB 180	µg/L	< 0.01	-	
Sum of PCB	µg/L	< 0.01	-	
Sum of PCB acc. to LAGA	µg/L	< 0.05	0.05	
AOX in eluate				
AOX	mg/L	0.045	-	DIN EN ISO 9562



Sample 55255348001: Bench board / palisade of hanit.

Results:

Polycyclic aromatic hydrocarbons, with a sum concentration of 0.5 mg/kg, were detected in the plastic sample. The sample is therefore within the limits for products according to REACH VO (EC) 1907/2006, annex XVII and according to AfPS GS 2014:01 (all categories of materials – category 1, 2 and 3).

Polychlorinated biphenyls (PCB) were not detected in the eluate. The sample does comply with the limit of 0.05 µg/L for the sum of PCB according to The Federal Soil Protection and Contaminated Sites Ordinance (BBodSchV).

AOX, with a concentration of 0.045 mg/L, were detected in the eluate. There are no given limits for this parameter (AOX) according to LAGA and the BBodSchV.

LQ: Limit of quantification

Worked out:
Person in charge:

DEKRA Automobil GmbH – Handwerkstr. 15 – 70565 Stuttgart
Dr. Magdalena Krause Phone +49.711.7861-3542

Hints:

The test results refer exclusively to the samples specified. A reproduction in excerpts of the test report must not be made without the written consent of the test laboratory. Chemical and material blanks are taken into account when determining the results. Samples will be stored for max. 6 months (for exceptions and specific storage times see QMH).

Stuttgart, 08.02.2017

DEKRA Automobil GmbH

Laboratory for Environmental and Product Analysis



LQ: Limit of quantification

Worked out:
Person in charge:

DEKRA Automobil GmbH – Handwerkstr. 15 – 70565 Stuttgart
Dr. Magdalena Krause Phone +49.711.7861-3542



Declaration of Harmlessness

Employment of recycled plastics in HAHN Kunststoffe products

In HAHN Kunststoffe products different fractions of recycled plastics from the German Dual System are employed in accordance with the Product Recycling and Waste Management Act of 1994.

The recycled plastics used in manufacturing are processed corresponding to a composition patented for HAHN Kunststoffe.

HAHN Kunststoffe products are highly environment-friendly, contamination caused by these products can be excluded.

hanit® products are subject to permanent material testing performed by predestined institutes such as the Chemical Research Institute Bergisches Land in Wuppertal, Germany. The established test readings are well below the permissible limits. As far as heavy metals are concerned only traces can be detected.

HAHN Kunststoffe GmbH

Hahn-Flughafen, Mar 15th 2008

Informationen about burning properties of products made from Recycling Plastic

The products in the scope of supply of HAHN Kunststoffe GmbH are manufactured in patent-registered processes from sorted fractions of the German Dual System. Attentive processed thermoplastic secondary material (mainly plastic packaging from industrial and household collections of the Dual System) are the raw material for our products. The primary material which is used for wrapping comprises Polypropylene and Polyethylene of higher and lower density. Other plastic is only of minor amounts.

Polyethylene and Polypropylene characteristics are according to DIN 4102 burning class II. Main criterion therefore is **„Continuous burning after removal of ignition source during fire test“**, results can be compared with wood.

As during the processing of the raw material from the Dual System no changes result in the basic material, the properties of the finished products remain the same, also when burning.

According to DIN 4102 burning class I is defined as **„burns in the flame, extinguishes outside of the flame“**. This could only be reached by adding expensive additives to the base material, so-called fire-inhibitors. Furthermore for burning class I permanent test certificates from a governmental institute are required.

The HAHN Kunststoffe production is without these substances, as the cost of such a procedure is not in line with the market and not customer orientated.

HAHN Kunststoffe GmbH