



# **Test Report**

No. 4718643-08

Date: 14/NOV/2018

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Steiner GmbH & Co. KG Mr. R.-H. Spies (PhD) Jägersgrund 1 57339 Erndtebrück GERMANY



# The following sample(s) was/were submitted and identified by/on behalf of the client as:

SGS Job file	: 4718	3643	
Order date	: 16/0	OCT/2018	
Order number	: EB-6	6013962-S-0255	
Sample receiving Date	: 17/0	DCT/2018	
Sampling	: by C	lient or by a third party acting at the Clie	nt's direction
condition of the samples	appr	opriate for testing	
Testing period	: 17/0	DCT/2018 – 14/NOV/2018	
Analytical scope	: Acco	ording to client's requirements	
Sample No	Sam	ple designation	Sample material
181026339	Sarr film	ple 1 Al/Zn-coated Polypropylene (PP)	Metallized plastic film

Test requested	:	Customer Requirement, please refer to next page(s)
Test Method(s)		Please refer to next page(s)
Test Result(s)	:	Please refer to next page(s)

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Conclusion

: Phthalate Plasticisers:

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Based on the performed tests on submitted sample(s), the test results of Bis(2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP), and Diisobutyl phthalate (DIBP) comply with the limits as set by Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU.

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#### Halogens:

Based on the performed tests on submitted sample(s), the test results of Chlorine and Bromine **comply with** the limits with reference to requirements acc. IEC 61249-2-21:2003: Chlorine or Bromine < 0,09% per homogeneous material; Sum of Chlorine and Bromine < 0,15% per homogeneous material; Iodine and Fluorine not: specified "homogeneous material" as defined by dir. 65/2011 EU)

Signed for and on behalf of

### SGS INSTITUT FRESENIUS GmbH

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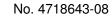
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#### **Test results:**

Test Item(s):	Unit	Test Method	Results 181026339	RL
Fluorine (F)	mg/kg	Wickbold combustion with reference to DIN 53474:2017-12; Analysis was performed via lon selective electrode acc. DIN 38405-4:1985-07	68	50
Chlorine (Cl)	mg/kg	Wickbold combustion with reference to DIN 53474:2017-12; Analysis was performed via lon chromatography acc. DIN EN ISO 10304-1:2009-07	n.d.	50
Bromine (Br)	mg/kg	Wickbold combustion with reference to DIN 53474:2017-12; Analysis was performed via lon chromatography acc. DIN EN ISO 10304-1:2009-07	n.d.	50
lodine (I)	mg/kg	Wickbold combustion based on DIN 53474:2017-12; Analysis was performed by Photometric determination acc. Sandell- Kolthof Method	n.d.	50
Dibutylphthalate (DBP) (84-74-2)	mg/kg	Gas chromatography with mass selective detector after extraction with toluene, house method, SOP M 889	n.d.	100
Benzylbutylphthalate (BBP) (85-68-7)	mg/kg	Gas chromatography with mass selective detector after extraction with toluene, house method, SOP M 889	n.d.	100
Bis-(2-ethylhexyl)phthalate (DEHP) (117-81-7)	mg/kg	Gas chromatography with mass selective detector after extraction with toluene, house method, SOP M 889	n.d.	100
Diisobutylphthalate (DIBP) (84-69-5)	mg/kg	Gas chromatography with mass selective detector after extraction with toluene, house method, SOP M 889	n.d.	100
Hexabromcyclododecane (HBCDD)	mg/kg	High-resolution gas chromatography with mass- selective detector after soxhlet extraction with toluene house method, not under accreditation	n.d.	50
Note: mg/kg = ppm n.d.=	not detected	RL = Report Limit n.a.= not analyzed	(*)=elevated rep	porting limit

due low sample amount

The test results refer exclusively to the examined test items and the date of the test under the test specifications.



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## Photo of the tested sample(s):



\*\*\*End of Report\*\*\*

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