

Test Report

No. 4718643-09

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 : 4718643
 Order date : 16/OCT/2018
 Order number : EB-6013962-S-0255
 Sample receiving Date : 17/OCT/2018
 Sampling : by Client or by a third party acting at the Client's direction
 condition of the samples : appropriate for testing
 Testing period : 17/OCT/2018 – 14/NOV/2018
 Analytical scope : According to client's requirements

Sample No	Sample designation	Sample material
181026341	Sample 3 Al-coated Polypropyleneterephthalate (PET) film	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:

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.

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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Test results:

Test Item(s):	Unit	Test Method	Results 181026341	RL
Fluorine (F)	mg/kg	Wickbold combustion with reference to DIN 53474:2017-12; Analysis was performed via Ion selective electrode acc. DIN 38405-4:1985-07	n.d.	50
Chlorine (Cl)	mg/kg	Wickbold combustion with reference to DIN 53474:2017-12; Analysis was performed via Ion 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 Ion chromatography acc. DIN EN ISO 10304-1:2009-07	n.d.	50
Iodine (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 reporting limit due low sample amount

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Photo of the tested sample(s):*****End of Report*****

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