

## Test Report

No. 6379985-01

Date: 23/NOV/2022

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FOLEX AG  
 Ms. Rahel Albisser  
 Bahnhofstrasse 92  
 6423 Seewen  
 SWITZERLAND



### The following samples were submitted and identified by/on behalf of the client as

SGS Job file : 6379985  
 Order date : 25/OCT/2022  
 Order number : pruef75sr1  
 Sample receiving date : 31/OCT/2022  
 Sampling : by client or by a third party acting at the client's direction  
 Condition of the samples : appropriate for testing  
 Testing period : 31/OCT/2022 – 23/NOV/2022  
 Analytical scope : according to client's requirements

Sample No.	Sample designation	Sample material
221194636	Molding Film Matt MC-M75 SR	plastic foil

Test requested : In accordance with the RoHS Directive 2011/65/EU and subsequent amendments

Test Method(s) : (1) Determination of Cadmium by ICP-OES, acc. IEC 62321-5:2013-06  
 (2) Determination of Lead by ICP-OES, acc. IEC 62321-5:2013-06  
 (3) Determination of Mercury by CV-AAS, acc. IEC 62321-4:2013-06  
 (4) Determination of Chromium by ICP-OES, acc. IEC 62321-5:2013-06  
 (5) Determination of Chromium (VI) acc. IEC 62321:  
 A) (metal samples) Determination after extraction with hot water and derivatization with 1,5-diphenyl-carbazide based on IEC 62321-7-1:2015-09 (metal samples), ion chromatography  
 B) (non-metallic samples) Testing acc. IEC 62321-7-2:2017-03,  
 deviation: measurement via ion chromatography acc. DIN EN ISO 10304-1:2009-07  
*Remark: Due to its highly reactive nature the concentration of Cr(VI) in a corrosion-protection changes drastically with time and storage conditions. The results obtained by IEC 62321-7-1:2015 can therefore only give an indication of the presence/absence of Cr(VI) within the limitations of the method at the time of testing.*  
 (6) Determination of PBB/PBDE by GC/MS, acc. IEC 62321-6:2015-06  
*Remark: Please note that acc. to IEC the testing of metals for PBB/PBDE is gratuitous*  
 (7) Determination of Phthalates by GC/MS acc. IEC 62321-8:2017-03  
 GC-MS after extraction with THF (Tetrahydrofurane)

Test Result(s) : Please refer to next page(s)

[https://Sgs.Sharepoint.Com/Sites/De-Cp-Hamfiles/F/FoLEX\\_AG\\_10082348/2022/6379985/6379985-01 ROHS+4-WM.Doc](https://Sgs.Sharepoint.Com/Sites/De-Cp-Hamfiles/F/FoLEX_AG_10082348/2022/6379985/6379985-01 ROHS+4-WM.Doc)

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Conclusion : Based on the performed tests on submitted sample(s), the test results of Lead, Mercury, Cadmium, hexavalent Chromium, Polybrominated Biphenyls (PBB) and Polybrominated Diphenyl Ethers (PBDE) **comply with** the limits as set by RoHS Directive 2011/65/EU, Annex 2 and subsequent amendments

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.

Signed for and on behalf of

**SGS INSTITUT FRESENIUS GmbH**

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### Test results by chemical method (Unit: mg/kg)

Sample No.		221194636		
Test Item(s):	Method (refer to)		RL	RoHS Limit
Cadmium (Cd)	(1)	n.d.	1	100
Lead (Pb)	(2)	n.d.	10	1000
Mercury (Hg)	(3)	n.d.	0,5	1000
Chromium, hexavalent (Cr(VI))	(5 B)	n.d.	1	1000
<b>Sum of PBDEs</b>	(6)	-	-	1000 (Sum of polybrominated diphenylethers)
Monobromodiphenyl ether		n.d.	50	
Dibromodiphenyl ether		n.d.	50	
Tribromodiphenyl ether		n.d.	50	
Tetrabromodiphenyl ether		n.d.	50	
Pentabromodiphenyl ether		n.d.	50	
Hexabromodiphenyl ether		n.d.	50	
Heptabromodiphenyl ether		n.d.	50	
Octabromodiphenyl ether		n.d.	50	
Nonabromodiphenyl ether		n.d.	50	
Decabromodiphenyl ether		n.d.	50	
<b>Sum of PBBs</b>		-	-	
Monobromobiphenyl		n.d.	50	
Dibromobiphenyl		n.d.	50	
Tribromobiphenyl		n.d.	50	
Tetrabromobiphenyl		n.d.	50	
Hexabromobiphenyl		n.d.	50	
Pentabromobiphenyl		n.d.	50	
Heptabromobiphenyl		n.d.	50	
Octabromobiphenyl		n.d.	50	
Nonabromobiphenyl		n.d.	50	
Decabromobiphenyl		n.d.	50	
<b>Phthalates</b>	(7)			
Bis(2-ethylhexyl) phthalate (DEHP) (117-81-7)		n.d.	100	1000 <sup>#</sup>
Butyl benzyl phthalate (BBP) (85-68-7)		n.d.	100	1000 <sup>#</sup>
Dibutyl phthalate (DBP) (84-74-2)		n.d.	100	1000 <sup>#</sup>
Diisobutyl phthalate (DIBP) (84-69-5)		n.d.	100	1000 <sup>#</sup>

Note: mg/kg = ppm

n.d.= not detected

RL = Report Limit

n.a.= not analyzed

\*\* = elevated reporting limit due to matrix interferences

# = limit acc. dir 2015/863 (EU), valid from 22/JUL/2019

**Test Report**

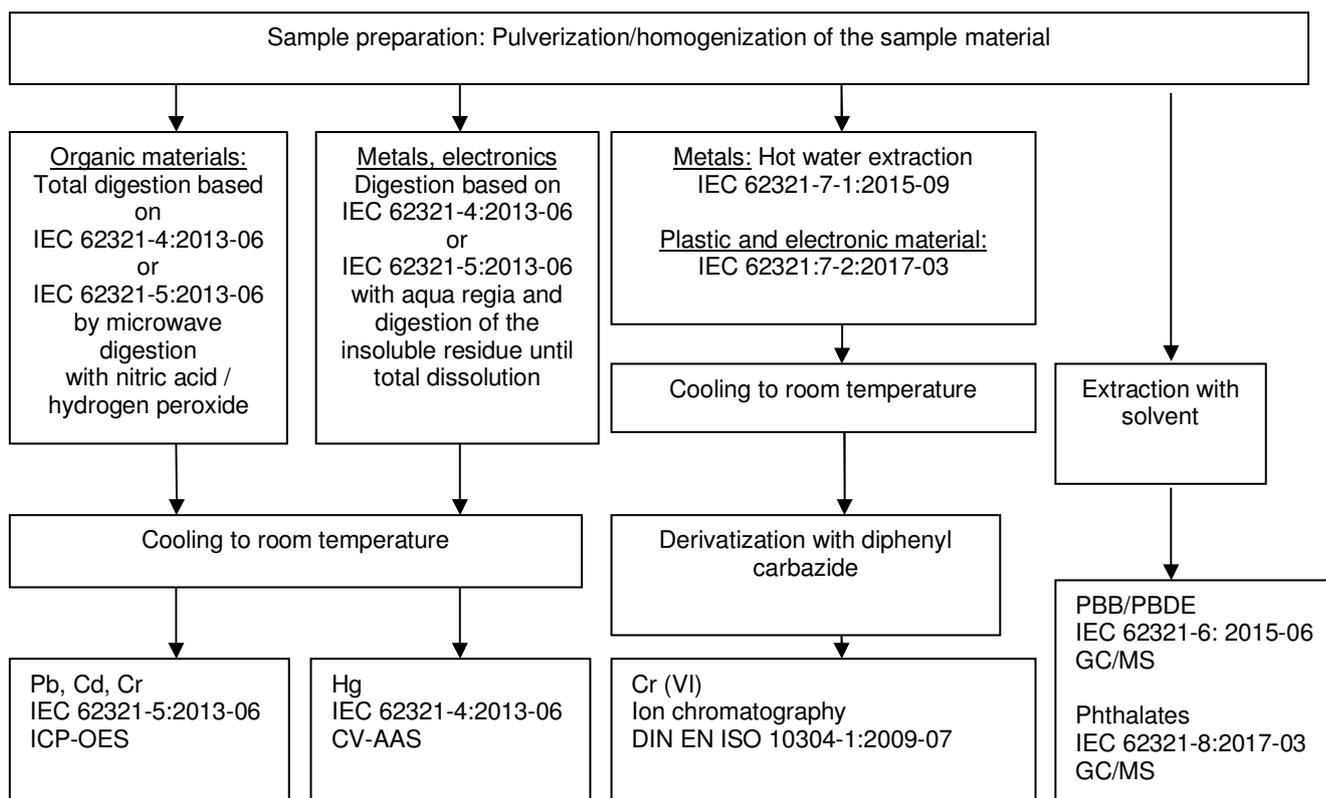
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**Flow Chart for the working flow of the performed analysis**



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**Sample Photo(s)**

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

The test results refer exclusively to the examined test items and the date of the test under the test specifications. Written acknowledgement for publication and duplication of our analytical reports for promotional purpose, as well as fractional use for other purposes are mandatory. Numbers following „<“ represent limits of quantification. Determination of parameters marked with \* was performed with a cooperation partner.

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We would like to point out that measurement uncertainties are not taken into account for conclusions. On request, we can provide measurement uncertainties and take them into account for conclusions upon consultation.