

GLOBALFOUNDRIES Dresden Module One Co. KG
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Connectivity & Products
Non Food



Taunusstein, 28.05.2026

Test-report no. 8024824

General Information

SGS-Client's ID	: 10074122
SGS-Customer-Order	: 7738064
Ordering date	: 26/02/2026
Testing period	: 27/02/2026 – 28/05/2026
Sampling	: By Client or by a third party acting at the Client's direction
Order No.	: 5000033960
Testing scope	: Test according to client's requirements

Original Sample ID	Sample Description	Sample Receipt Date
260213602	Fab 1 300mm die patterned wafer, tech Node 40nm	27/02/2026

- 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)

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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.

SGS INSTITUT FRESENIUS GmbH

This test report was electronically created and released:

	Date	Name	Function	Department
Created	27.05.2026	i. A. Sabrina Baldauf	Teamassistentin	C&P Non Food Spezielle Analytik
Released	28.05.2026	i.A. Sven Unger	Group Leader	Chemie Hardgoods

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Analytical Results

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

Sample No.		260213602		
Test Item(s):	Method (refer to)		RL	RoHS Limit
Cadmium (Cd)	(1)	n.d.	1	100
Lead (Pb)	(2)	n.d.	2	1000
Mercury (Hg)	(3)	n.d.	0.5	1000
Chromium, total (Cr)	(4)	n.d.	10	1000 (Limit for Cr(VI))
Chromium, hexavalent (Cr(VI))	(5 B)	n.d.	1	1000
Sum of PBDEs	(6)	-	-	1000 (Sum of polybrominated diphenylethers)
Monobromodiphenyl ether		n.d.	5	
Dibromodiphenyl ether		n.d.	5	
Tribromodiphenyl ether		n.d.	5	
Tetrabromodiphenyl ether		n.d.	5	
Pentabromodiphenyl ether		n.d.	5	
Hexabromodiphenyl ether		n.d.	5	
Heptabromodiphenyl ether		n.d.	5	
Octabromodiphenyl ether		n.d.	5	
Nonabromodiphenyl ether		n.d.	5	
Decabromodiphenyl ether		n.d.	5	
Sum of PBBs		-	-	1000 (Sum of polybrominated biphenyls)
Monobromobiphenyl		n.d.	5	
Dibromobiphenyl		n.d.	5	
Tribromobiphenyl		n.d.	5	
Tetrabromobiphenyl		n.d.	5	
Pentabromobiphenyl		n.d.	5	
Hexabromobiphenyl		n.d.	5	
Heptabromobiphenyl		n.d.	5	
Octabromobiphenyl		n.d.	5	
Nonabromobiphenyl		n.d.	5	
Decabromobiphenyl		n.d.	5	
Phthalates	(7)			
Bis(2-ethylhexyl) phthalate (DEHP) (117-81-7)		n.d.	50	1000 [#]
Butyl benzyl phthalate (BBP) (85-68-7)		n.d.	50	1000 [#]
Dibutyl phthalate (DBP) (84-74-2)		n.d.	50	1000 [#]
Diisobutyl phthalate (DIBP) (84-69-5)		n.d.	50	1000 [#]

Note: mg/kg = ppm n.d. = not detected RL = Report Limit n.a. = not analyzed

** = elevated reporting limit due to matrix interferences

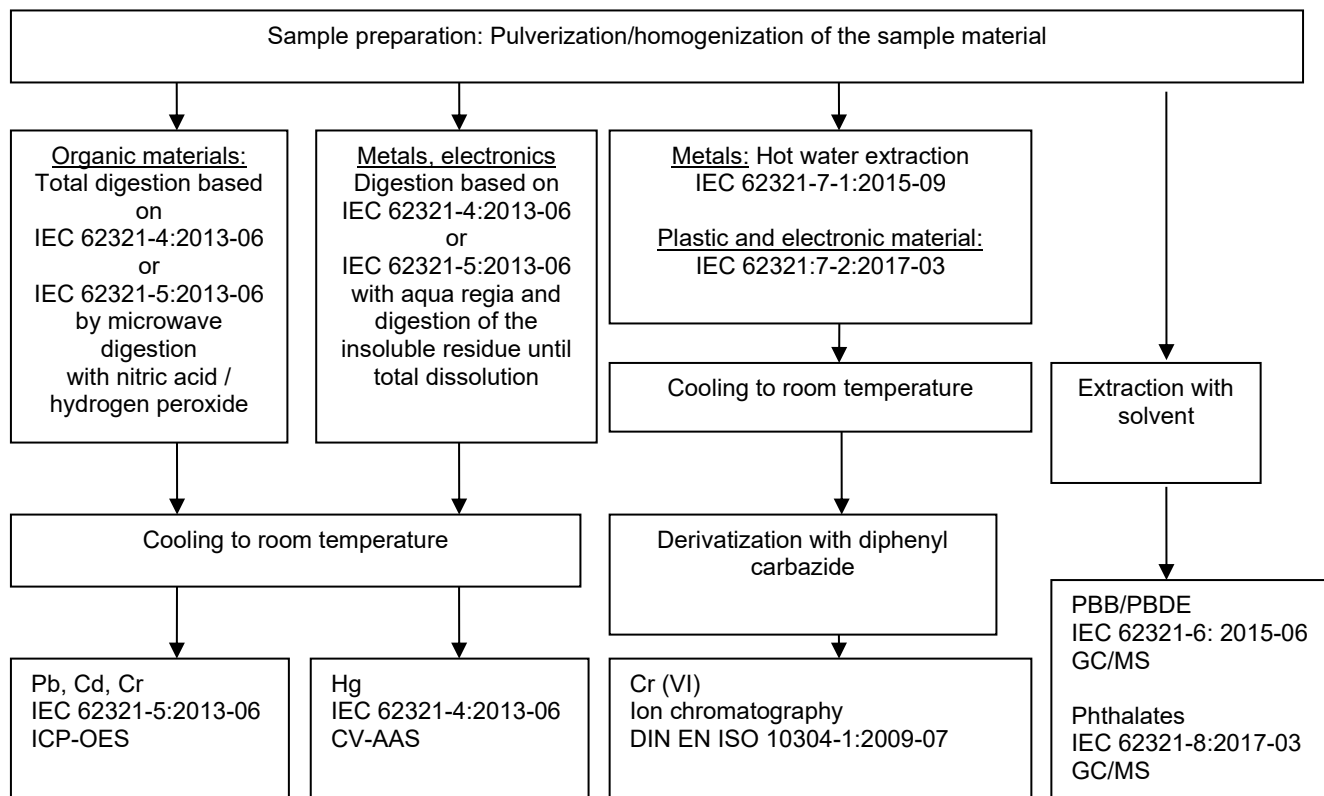
[#] = limit acc. dir. 2015/863 (EU), valid from 22/JUL/2019

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Flow Chart for the working flow of the performed analysis

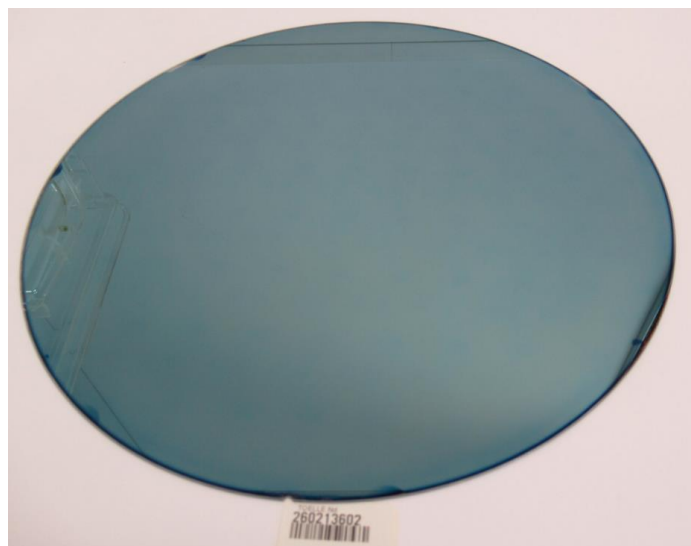
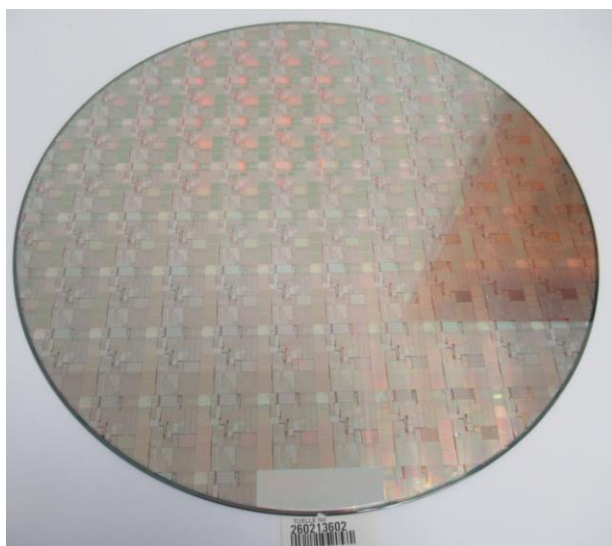


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Sample Photo(s)



*** End of test report ***

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