

No.T32220320745SC

Date: Oct 21, 2022

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IT4IPSA

AVENUE JEAN-ETIENNE LENOIR 1, 1348, LOUVAIN-LA-NEUVE, BELGIUM

The following samples were submitted and identified by/on behalf of the client as: IpPORE™ TRACK - ETCHED MEMBRANE - POLYIMIDE (PI) - PVP TREATED

Case No. : CA322203212159 Our File No. : SP22-036064.001

Sample Receiving Date : OCT 13, 2022

Testing Period : OCT 13, 2022 - OCT 21, 2022

Test	Conclusion	
1.	European RoHS Directive 2011/65/EU Annex II; recasting 2002/95/EC	PASS
	(As per client's request)	PASS
2.	European RoHS Directive (EU) 2015/863 amending Annex II to Directive	
	2011/65/EU – DEHP, BBP, DBP and DIBP content	PASS
l	(As per client's request)	

******** FOR FURTHER DETAILS, PLEASE REFER TO THE FOLLOWING PAGE(S) ********

Signed for and on behalf of SGS Hong Kong Ltd.

Lam Chi Ho, Jacko Senior Chemist





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Test Results:

1. European RoHS Directive 2011/65/EU Annex II; recasting 2002/95/EC

Cadmium, Lead, Mercury, Hexavalent Chromium, Polybromobiphenyl (PBB) and Polybromodiphenyl ether (PBDE) content

Method:

For Lead, Cadmium With reference to IEC 62321-5:2013, analysis was performed by Inductively Coupled

Plasma Optical Emission Spectrometer (ICP-OES) / Atomic Absorption

Spectrometer (AAS).

For Mercury With reference to IEC 62321-4:2013+AMD1:2017, analysis was performed by

Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES).

For PBB and PBDEs With reference to IEC 62321-6:2015, analysis was performed by Gas

Chromatography Mass Spectrometer (GC-MS)

With reference to IEC 62321-7-2:2017, analysis was performed by Ultraviolet Visible For Chromium (VI)

Spectrophotometer (UV-Vis)

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Test Item	Result (mg/kg)	Reporting Limit	Permissible Limit
	1	(mg/kg)	(mg/kg)
Cadmium	ND	5	100
Lead	ND	5	1000
Mercury	ND	5	1000
Hexavalent Chromium	ND	5	1000
Sum of PBBs	ND		1000
Monobromobiphenyl	ND ND	5	
Dibromobiphenyl	ND	5	
Tribromobiphenyl	ND	5	
Tetrabromobiphenyl	ND	5	
Pentabromobiphenyl	ND ND	5	
Hexabromobiphenyl	ND ND	5	
Heptabromobiphenyl	ND ND	5	
Octabromobiphenyl	ND ND	5	
Nonabromobiphenyl	ND ND	5	
Decabromobiphenyl	ND ND	5	
Sum of PBDEs	ND ND		1000
Monobromodiphenyl			1000
ether	ND	5	
Dibromodiphenyl ether	ND	5	
Tribromodiphenyl ether	ND	5	
Tetrabromodiphenyl ether	ND	5	
Pentabromodiphenyl			
ether	ND	5	
Hexabromodiphenyl ether	ND	5	
Heptabromodiphenyl	ND	5	
ether			
Octabromodiphenyl ether	ND	5	
Nonabromodiphenyl ether	ND	5	
Decabromodiphenyl ether	ND	5	
Comment	PASS		
		1	1

Sample Description:

Brown soft plastic

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Note: 1. mg/kg = milligram per kilogram

2. ND = Not Detected

Remark: Results shown as ND are ignored in the sum calculation

2. <u>European RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU – DEHP, BBP, DBP and DIBP content</u>

Method: With reference to IEC 62321-8:2017. Analysis was performed by Gas Chromatography / Mass Spectrometry

Test Item	CAS No.	Result (%)	Reporting Limit (%)	Permissible Limit (%)
Bis-(2-ethylhexyl) Phthalate (DEHP)	117-81- 7	ND	0.003	0.1
Benzylbutyl Phthalate (BBP)	85-68-7	ND	0.003	0.1
Dibutyl Phthalate (DBP)	84-74-2	ND	0.003	0.1
Diisobutyl phthalate (DIBP)	84-69-5	ND	0.003	0.1
Comment		PASS		

Sample Description:

1. Brown soft plastic

Note: 1. % = percentage by weight

2. ND = Not Detected

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Remark:

When statement of conformity is made, unless inherent in the requested specification or instructed by the applicant, the decision rule would be based on the non-binary statement with guard band (is equal to the expanded measurement uncertainty with a 95% coverage probability, $w = U_{95}$) in ILAC-G8:09/2019 Clause 4.2.3.

"Pass - the measured value is within (or below / above) the acceptance limit, where the acceptance limit is below / above to the guard band." or "Pass - The measured values were observed in tolerance at the points tested. The specific false accept risk is up to 2.5%.".

"Fail - the measured value is out of (or below / above) the tolerance limit added / subtracted to the guard band." or "Fail - One or more measured values were observed out of tolerance at the points tested". The specific false reject risk is up to 2.5%.

"Inconclusive – It is not possible to state the conformity. Either one or more measured values were observed in the portion of the expanded measurement uncertainty intervals at the points tested where the specific risk is up to 50%."

Sample Photo:





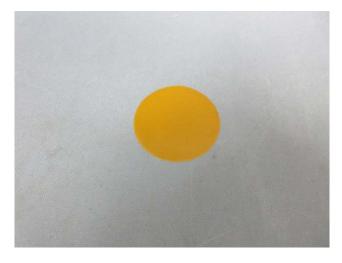
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SGS authenticate the photo on original report only *** End of Report ***

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