

Applicant: FLASHBAY ELECTRONICS

BUILDING2, JIXUN INDUSTRIAL PARK,XINJIAO, DONG'AO VILLAGE, SHATIAN TOWN,HUIYANG DISTRICT, HUIZHOU CITY, GUANGDONG

PROVINCE, P.R. CHINA

Sample Description:

Three (3) pieces of submitted sample said to be: Item Name : Travel Cup Item No. : EcoSip/EP Country of Origin : China Date Sample Received : Apr 28, 2023

Testing Period : Apr 28, 2023 ~ Jun 08, 2023





Date:

Jun 08, 2023

Tests conducted:

As requested by the applicant, refer to attached page(s) for details.

To be continued



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Intertek Testing Services Shenzhen Limited, Guangzhou Branch

深圳天祥质量技术服务有限公司广州分公司

Room 401/501/601/801/901/1003, No. 8, East BaoYing Road, Huangpu District, Guangzhou, China \111, Huichuang Kongjian, TCL Cultural Industrial Park, No.69, Guangpu Road, Huangpu District, Guangzhou, Guangdong, China.

District, Guangzhou, Guangdong, China.
广州市黄埔区保盈东路 8 号 401 房、501 房、601 房、801 房、901 房、1003 房。广州市黄埔区光谱西路 69 号 TCL 文化产业园汇创空间 111 室。(邮编:510730)





Conclusion:

Glusion.		
Tested sample Tested component(s) of	Standard/Testing Item Council Europe Resolution AP (2004) 5 on Silicones Used for	Result Pass
submitted sample(s)	Food Contact Applications on Overall Migration	
	European Commission Regulation No. 10/2011 Annex I and its amendment No. 2018/213 and No. 2020/1245 and	Pass
	Regulation 1935/2004 on specific migration of Bisphenol A	

European Commission Regulation No. 10/2011 Annex II and Amendment No. 2016/1416 and No. 2017/752 and No. 2020/1245 and Regulation 1935/2004 on specific migration of heavy metal content

European Commission Regulation No. 10/2011 Annex I and II Pass and Amendments No. 2020/1245 and Regulation 1935/2004 on specific migration of Primary Aromatic Amines

European Commission Regulation No. 10/2011 Annex I and its amendment EU 2020/1245 and Regulation 1935/2004 on specific migration of Phthalate content

European Commission Regulation No. 10/2011 and Amendment No. 2016/1416 and No 2017/752 and No. 2020/1245 and Regulation 1935/2004 on overall migration

EU Technical Guide Council of Europe Resolution CM/Res(2013)9 on metals and alloys Used in Food Contact Materials and Articles on specific migration of heavy metal

European Commission Regulation No. 10/2011 Annex I and Regulation(EC) 1935/2004 on Phthalate content

Authorized by:

For Intertek Testing Services Shenzhen Ltd.

Guangzhou Branch, Hardlines

Victor T.J/Wang Assistant General Manager

Pass

Pass

Pass

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510730)





Tests Conducted

1 Overall Migration Test for Silicones

As per Council Europe Resolution AP (2004) 5 on silicones used for food contact applications, selection of test condition & food simulants by Commission Regulation (EU) No. 10/2011 and its amendments.

Test condition:

Aqueous food simulant:	
Test no.	Time and temperature
OM2	10 days at 40 °C
Fatty food simulant:	
Test no.	Time and temperature
OM2	10 days at 40 °C

Tested component	Food simulant	Time(hour)	Temperature(°C)
	10% (v/v) Ethanol	240	40
(3)	3% (w/v) Acetic acid	240	40
	95%(v/v) Ethanol	240	40
	Iso -octane	48	20

Test Item		Result					D.L.	Limit
l'est item	3	-	-	-	-	Units	D.L.	Lillit
10% (v/v) Ethanol	ND	-	-	-	-	mg/dm²	1	10
3% (w/v) Acetic acid	ND	-	-	-	-	mg/dm²	1	10
95% (v/v) Ethanol	ND	-	-	-	-	mg/dm²	1	10
Iso-octane	ND	-	-	-	-	mg/dm²	1	10

Remarks:

D.L. = Detection Limit

ND = Not detected

Tested Components: See component list in the last section of this report.

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Tests Conducted

2 Specific Migration of Bisphenol A Test for Plastic Food Contacting Materials/Articles

With reference to Commission Regulation (EU) No. 10/2011 and its amendments (including amendment No. 2018/213 and amendment No. 2020/1245) and DD CEN/TS 13130-13:2005.

Test condition:

Tested component	Food simulant	<u>Time(hour)</u>	Temperature(°C)
(4)	3% (w/v) Acetic acid	2 and then 24	70 and then 40

(4) Black unvulcanized TPR plastic (plug).

Result					
Food simulant	1 st migration mg/kg	2 nd migration mg/kg	3 rd migration mg/kg	Reporting Limit mg/kg	Limit mg/kg
3% (w/v) Acetic acid	ND	ND	ND	0.01	0.05

ND = Not detected

Compliance: 3rd migration result < limit (if limit is ND, 1st migration result 1 migration result ≤2rd migration result ≤1st migration result

Specific Migration of Heavy Metals Content (EU Commission Regulation (EU) No 10/2011)

With reference to Commission Regulation (EU) No. 10/2011 and its amendments

Test condition:

Food simulant: 3% (w/v) Acetic acid

70°C and then 40°C Time: 2 hours and then 24 hours Temperature:

(1) Black PP plastic (lid).

	Result					
Element	1 st migration mg/kg	2 nd migration mg/kg	3 rd migration mg/kg	Reporting Limit mg/kg	Limit mg/kg	
Aluminium (Al)	ND	ND	ND	0.1	1	
Antimony (Sb)	ND	ND	ND	0.01	0.04	
Arsenic (As)	ND	ND	ND	0.01	ND	
Barium (Ba)	ND	ND	ND	0.1	1	
Cadmium (Cd)	ND	ND	ND	0.002	ND	
Chromium (Cr)	ND	ND	ND	0.01	ND	
Cobalt (Co)	ND	ND	ND	0.03	0.05	
Copper (Cu)	ND	ND	ND	1	5	



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Tests Conducted

Element	1 st migration mg/kg	2 nd migration mg/kg	3 rd migration mg/kg	Reporting Limit mg/kg	Limit mg/kg
Iron (Fe)	ND	ND	ND	5	48
Lead (Pb)	ND	ND	ND	0.01	ND
Lithium (Li)	ND	ND	ND	0.1	0.6
Manganese (Mn)	ND	ND	ND	0.1	0.6
Mercury (Hg)	ND	ND	ND	0.01	ND
Nickel (Ni)	ND	ND	ND	0.01	0.02
Zinc (Zn)	ND	ND	ND	1	5
Europium (Eu)	ND	ND	ND	0.01	0.05
Gadolinium (Gd)	ND	ND	ND	0.01	0.05
Lanthanum (La)	ND	ND	ND	0.01	0.05
Terbium (Tb)	ND	ND	ND	0.01	0.05
Sum of (Eu, Gd, La, Tb)	ND	ND	ND	0.04	0.05

(4) Black unvulcanized TPR plastic (plug)

	· · · · · · · · · · · · · · · · · · ·				
Element	1 st migration mg/kg	2 nd migration mg/kg	3 rd migration mg/kg	Reporting Limit mg/kg	Limit mg/kg
Aluminium (Al)	ND	ND	ND	0.1	1
Antimony (Sb)	ND	ND	ND	0.01	0.04
Arsenic (As)	ND	ND	ND	0.01	ND
Barium (Ba)	ND	ND	ND	0.1	1
Cadmium (Cd)	ND	ND	ND	0.002	ND
Chromium (Cr)	ND	ND	ND	0.01	ND
Cobalt (Co)	ND	ND	ND	0.03	0.05
Copper (Cu)	ND	ND	ND	1	5
Iron (Fe)	ND	ND	ND	5	48
Lead (Pb)	ND	ND	ND	0.01	ND
Lithium (Li)	ND	ND	ND	0.1	0.6
Manganese (Mn)	ND	ND	ND	0.1	0.6
Mercury (Hg)	ND	ND	ND	0.01	ND
Nickel (Ni)	ND	ND	ND	0.01	0.02
Zinc (Zn)	ND	ND	ND	1	5
Europium (Eu)	ND	ND	ND	0.01	0.05
Gadolinium (Gd)	ND	ND	ND	0.01	0.05
Lanthanum (La)	ND	ND	ND	0.01	0.05
Terbium (Tb)	ND	ND	ND	0.01	0.05
Sum of (Eu, Gd, La, Tb)	ND	ND	ND	0.04	0.05

ND = Not Detected

Compliance: 3rd migration result < limit (if limit is ND, 1st migration result 1 migration result ≤2nd migration result≤1 migration res



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Intertek Testing Services Shenzhen Limited, Guangzhou Branch

Room 401/501/601/801/901/1003, No. 8, East BaoYing Road, Huangpu District, Guangzhou, China \111, Huichuang Kongjian, TCL Cultural Industrial Park, No.69, Guangpu Road, Huangpu District, Guangzhou, Guangdong, China.





Tests Conducted

4 Specific Migration of Primary Aromatic Amines (EU Commission Regulation (EU) No 10/2011)

With reference to Commission Regulation (EU) No. 10/2011 and its amendments and JRC Technical Guidelines EUR 24815 EN 2011.

Test condition:

Tested component	Food simulant	Time(hour)	Temperature(°C)
(1)to(4)	3% (w/v) Acetic acid	2 and then 24	70 and then 40

(1) Black PP plastic (lid).

Test Item	1 st migration mg/kg	2 nd migration mg/kg	3 rd migration mg/kg	Reporting Limit mg/kg	Limit mg/kg
4-Aminodiphenyl	ND	ND	ND	0.002	ND
Benzidine	ND	ND	ND	0.002	ND
4-Chloro-o-toluidine	ND	ND	ND	0.002	ND
2-Naphthylamine	ND	ND	ND	0.002	ND
o-Aminoazotoluene	ND	ND	ND	0.002	ND
2-Amino-4-Nitrotoluene	ND	ND	ND	0.002	ND
p-Chloroaniline	ND	ND	ND	0.002	ND
2,4-Diaminoanisole	ND	ND	ND	0.002	ND
4,4'- Diaminodiphenylmethane	ND	ND	ND	0.002	ND
3,3'-Dichlorobenzidine	ND	ND	ND	0.002	ND
3,3'-Dimethoxybenzidine	ND	ND	ND	0.002	ND
3,3'-Dimethylbenzidine	ND	ND	ND	0.002	ND
3,3'-Dimethyl-4,4'- diaminodiphenylmethane	ND	ND	ND	0.002	ND
p-Cresidine	ND	ND	ND	0.002	ND
4,4'-Methylene-bis-(2- chloroaniline)	ND	ND	ND	0.002	ND
4,4'-Oxydianiline	ND	ND	ND	0.002	ND
4,4'-Thiodianiline	ND	ND	ND	0.002	ND
o-Toluidine	ND	ND	ND	0.002	ND
2,4-Toluylenediamine	ND	ND	ND	0.002	ND
2,4,5-Trimethylaniline	ND	ND	ND	0.002	ND
o-Anisidine	ND	ND	ND	0.002	ND
4-Aminoazobenzene	ND	ND	ND	0.002	ND
m-Phenylenediamine	ND	ND	ND	0.002	ND
Benzoguanamin	ND	ND	ND	0.05	5
4,4-Methylene-bis- 3(chloro-2,6- diethylaniline)	ND	ND	ND	0.01	0.05
Total of other primary aromatic amine	ND	ND	ND	0.01	0.01



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深圳天祥质量技术服务有限公司广州分公司

Room 401/501/601/801/901/1003, No. 8, East BaoYing Road, Huangpu District, Guangzhou, China \111, Huichuang Kongjian, TCL Cultural Industrial Park, No.69, Guangpu Road, Huangpu District, Guangzhou, Guangdong, China.





Tests Conducted

(4) Black unvulcanized TPR plastic (plug).

(4) Black diffulcatilized 11		Res			
Test Item	1 st migration mg/kg	2 nd migration mg/kg	3 rd migration mg/kg	Reporting Limit mg/kg	Limit mg/kg
4-Aminodiphenyl	ND	ND	ND	0.002	ND
Benzidine	ND	ND	ND	0.002	ND
4-Chloro-o-toluidine	ND	ND	ND	0.002	ND
2-Naphthylamine	ND	ND	ND	0.002	ND
o-Aminoazotoluene	ND	ND	ND	0.002	ND
2-Amino-4-Nitrotoluene	ND	ND	ND	0.002	ND
p-Chloroaniline	ND	ND	ND	0.002	ND
2,4-Diaminoanisole	ND	ND	ND	0.002	ND
4,4'- Diaminodiphenylmethane	ND	ND	ND	0.002	ND
3,3'-Dichlorobenzidine	ND	ND	ND	0.002	ND
3,3'-Dimethoxybenzidine	ND	ND	ND	0.002	ND
3,3'-Dimethylbenzidine	ND	ND	ND	0.002	ND
3,3'-Dimethyl-4,4'- diaminodiphenylmethane	ND	ND	ND	0.002	ND
p-Cresidine	ND	ND	ND	0.002	ND
4,4'-Methylene-bis-(2- chloroaniline)	ND	ND	ND	0.002	ND
4,4'-Oxydianiline	ND	ND	ND	0.002	ND
4,4'-Thiodianiline	ND	ND	ND	0.002	ND
o-Toluidine	ND	ND	ND	0.002	ND
2,4-Toluylenediamine	ND	ND	ND	0.002	ND
2,4,5-Trimethylaniline	ND	ND	ND	0.002	ND
o-Anisidine	ND	ND	ND	0.002	ND
4-Aminoazobenzene	ND	ND	ND	0.002	ND
m-Phenylenediamine	ND	ND	ND	0.002	ND
Benzoguanamin	ND	ND	ND	0.05	5
4,4-Methylene-bis- 3(chloro-2,6- diethylaniline)	ND	ND	ND	0.01	0.05
Total of other primary aromatic amine	ND	ND	ND	0.01	0.01

ND = Not detected

Other primary aromatic amines are p-Phenylendiamine, Aniline, 2,4-Xylidine, 2,6-Xylidine, 3-Methoxyaniline, 2,6-Toluene-diamine, 1,5-Diaminonaphthalene, 4-Ethoxyaniline, 3-Amino-4-methoxybenzanilide, 3-Amino-4methylbenzamide, 2-Amino-5-methylbenzoic acid

Compliance: 3^{rd} migration result < limit (if limit is ND, 1^{st} migration result limit) 3^{rd} migration result $\leq 2^{nd}$ migration result $\leq 1^{st}$ migration result



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深圳天祥质量技术服务有限公司广州分公司

Room 401/501/601/801/901/1003, No. 8, East BaoYing Road, Huangpu District, Guangzhou, China \111, Huichuang Kongjian, TCL Cultural Industrial Park, No.69, Guangpu Road, Huangpu District, Guangzhou, Guangdong, China.





Tests Conducted

5 Specific Migration of Phthalate Content Test

As per Commission Regulation (EU) No.10/2011 and its amendments.

Test condition:

Tested component	Food simulant	<u>Time(hour)</u>	Temperature(°C)
(4)	95%(v/v) Ethanol	2 and then 24	70 and then 40

(4) Black unvulcanized TPR plastic (plug).

		Result of 95%	(v/v) Ethanol		
Test Item	1 st migration mg/kg	2 nd migration 3 rd migration mg/kg mg/kg		Reporting Limit mg/kg	Limit mg/kg
Benzyl butyl phthalate (BBP)	ND	ND	ND	1.0	30
Di-(2-ethylhexyl) phthalate (DEHP)	ND	ND	ND	1.0	1.5
Dibutyl phthalate (DBP)	ND	ND	ND	0.2	0.3
Di-isononyl phthalate (DINP)+Di- isodecyl phthalate (DIDP)	ND	ND	ND	1.0	9.0
Diallyl phthalate (DAP)	ND	ND	ND	0.01	ND

ND = Not Detected

Ratio of food contact surface area to volume of component (4) used to establish the compliance of material or dm²: article = 0.006 450

Compliance: 3^{rd} migration result < limit (if limit is ND, 1^{st} migration result limit) 3^{rd} migration result $\leq 2^{nd}$ migration result $\leq 1^{st}$ migration result



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Tests Conducted

6 Overall Migration Test (EU Commission Regulation (EU) No 10/2011)

With reference to Commission Regulation (EU) No. 10/2011 and its amendments.

Test condition:

Aqueous food simulant:	
Test no.	Time and temperature
OM2	10 days at 40 °C
Fatty food simulant:	
Test no.	Time and temperature
OM2	10 days at 40 °C

Tested component	Food simulant	Time(hour)	Temperature(°C)
	10% (v/v) Ethanol	240	40
(1)(4)	3% (w/v) Acetic acid	240	40
(1)(4)	95%(v/v) Ethanol	240	40
	Iso –octane	48	20

(1) Black PP plastic (lid).

	Result								
Food Simulant			3 rd migration mg/dm ²	Reporting Limit mg/dm ²	Limit mg/dm²				
10% (v/v) Ethanol	ND	ND	ND	3	10				
3% (w/v) Acetic acid	ND	ND	ND	3	10				
95% (v/v) Ethanol	ND	ND	ND	3	10				
Iso-octane	ND	ND	ND	3	10				

(4) Black unvulcanized TPR plastic (plug)

	Result								
Food Simulant	1 st migration mg/dm²	2 nd migration mg/dm ²	3 rd migration mg/dm²	Reporting Limit mg/dm²	Limit mg/dm²				
10% (v/v) Ethanol	ND	ND	ND	3	10				
3% (w/v) Acetic acid	ND	ND	ND	3	10				
95% (v/v) Ethanol	10	ND	ND	3	10				
Iso-octane	6	ND	ND	3	10				



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Intertek Testing Services Shenzhen Limited, Guangzhou Branch

Room 401/501/601/801/901/1003, No. 8, East BaoYing Road, Huangpu District, Guangzhou, China \111, Huichuang Kongjian, TCL Cultural Industrial Park, No.69, Guangpu Road, Huangpu District, Guangzhou, Guangdong, China.





Tests Conducted

ND = Not detected

Ratio of food contact surface area to volume of component (1) used to establish the compliance of material or article = 1.10 dm^2 : 450 mL.

Ratio of food contact surface area to volume of component (4) used to establish the compliance of material or article = 0.006dm^2 : 450 mL.

Compliance: 3^{rd} migration result < limit (if limit is ND, 1^{st} migration result limit) 3^{rd} migration result $\leq 2^{nd}$ migration result $\leq 1^{st}$ migration result

7 Release Testing on Metals and Alloys Used in Food Contact Materials and Articles

With reference to EU Technical Guide "Council of Europe Resolution CM/Res(2013)9 on metals and alloys Used in Food Contact Materials and Articles". Migration test was carried out and heavy metal content was determined by Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES) and Inductively Coupled Plasma Mass Spectrometer (ICP-MS).

Test Condition:

Food simulant	Time(hours)	Temperature(°C)
Citric acid (5 g/L)	2 and then 24	70 and then 40

(2) Silver color stainless steel (body).

Test Item	Result 1st test mg/kg	Result 2 nd test mg/kg	Result 1 st test+Result 2 nd test mg/kg	Result 3 rd test mg/kg	Reporting Limit mg/kg	7*Limit mg/kg	Limit mg/kg
Silver (Ag)	ND	ND	ND	ND	0.05	0.56	0.08
Aluminium (AI)	ND	ND	ND	ND	0.05	35	5
Chromium (Cr)	0.02	ND	0.02	ND	0.02	1.75	0.250
Cobalt (Co)	ND	ND	ND	ND	0.01	0.14	0.02
Copper (Cu)	ND	ND	ND	ND	0.5	28	4
Iron (Fe)	ND	ND	ND	ND	1	280	40
Manganese (Mn)	ND	ND	ND	ND	0.02	12.6	1.8
Molybdenum (Mo)	ND	ND	ND	ND	0.02	0.84	0.12
Nickel (Ni)	ND	ND	ND	ND	0.01	0.98	0.14



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深圳天祥质量技术服务有限公司广州分公司

Room 401/501/601/801/901/1003, No. 8, East BaoYing Road, Huangpu District, Guangzhou, China \111, Huichuang Kongjian, TCL Cultural Industrial Park, No.69, Guangpu Road, Huangpu District, Guangzhou, Guangdong, China.





Tests Conducted

Test Item	Result 1st test mg/kg	Result 2 nd test mg/kg	Result 1 st test+Result 2 nd test mg/kg	Result 3 rd test mg/kg	Reporting Limit mg/kg	7*Limit mg/kg	Limit mg/kg
Tin (Sn)	ND	ND	ND	ND	10	700	100
Vanadium (V)	ND	ND	ND	ND	0.005	0.07	0.01
Zinc (Zn)	ND	ND	ND	ND	1	35	5
Antimony (Sb)	ND	ND	ND	ND	0.01	0.28	0.04
Arsenic (As)	ND	ND	ND	ND	0.001	0.014	0.002
Barium (Ba)	ND	ND	ND	ND	0.1	8.4	1.2
Beryllium (Be)	ND	ND	ND	ND	0.005	0.07	0.01
Cadmium (Cd)	ND	ND	ND	ND	0.001	0.035	0.005
Lead (Pb)	ND	ND	ND	ND	0.005	0.070	0.010
Lithium (Li)	ND	ND	ND	ND	0.010	0.336	0.048
Mercury (Hg)	ND	ND	ND	ND	0.002	0.021	0.003
Thallium (TI)	ND	ND	ND	ND	0.0001	0.0007	0.0001
Magnesium (Mg)	ND	ND	ND	ND	1	-	-
Titanium (Ti)	ND	ND	ND	ND	1	-	-

ND = Not detected

The submitted sample is a repeated use article. The migration test was carried out three times on the same article. The sum of the results of the first and second tests should not exceed seven times the limit (Result 1st test + Result 2nd test < 7 * limit) and the Result 3rd test shouldn't exceed the limit.

Ratio of food contact surface area to volume of component (2) used to establish the compliance of material or article = 2 .06 dm²: 300 mL.

8 Phthalate Content

With reference to ISO 8124-6:2018, and phthalate content was determined by Gas Chromatographic-Mass Spectrometric (GC-MS).

Test Item	CAS No.			Result		Un		D.L.	Limit
rest item	CAS NO.	4	-	-	-	-	Units	D.L.	Lillit
Di-butyl phthalate (DBP)	84-74-2	ND	ı	-	-	-	%	0.005	0.05
Di(2-ethyl hexyl) phthalate (DEHP)	117-81-7	ND	-	-	-	1	%	0.005	0.1
Benzyl butyl phthalate (BBP)	85-68-7	ND	ı	ı	ı	-	%	0.005	0.1
Di-iso-nonyl phthalate (DINP)	28553-12-0	ND	ı	ı	ı	-	%	0.005	0.1
Di-iso-decyl phthalate (DIDP)	26761-40-0	ND	ı			-	%	0.005	0.1



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Room 401/501/601/801/901/1003, No. 8, East BaoYing Road, Huangpu District, Guangzhou, China \111, Huichuang Kongjian, TCL Cultural Industrial Park, No.69, Guangpu Road, Huangpu District, Guangzhou, Guangdong, China.





Tests Conducted

Remarks:

D.L. = Detection Limit ND = Not detected

Tested Components: See component list in the last section of this report.

Component List

No.	Test Component Description(s)
(1)	Black PP plastic (lid).
(2)	Silver color stainless steel (body).
(3)	Semi-transparent white silicone (seal ring).
(4)	Black unvulcanized TPR plastic (plug).

End of report

The statements of conformity reported have considered the decision rule agreed, namely that Intertek have taken account of measurement uncertainty as calculated by Intertek, and applied according to ILAC-G8/09:2019 (Non-binary acceptance based on guard band w = U) except designation from the customer, regulation or test specification. This decision rule only applies to the numeric test results.

The sample(s) and sample information hereto are provided by the client who shall be solely responsible for the authenticity and integrity thereof. The results shown in this report relate only to the sample(s) tested. It is not intended to be a recommendation for any particular course of action. Intertek does not accept a duty of care or any other responsibility to any person other than the Client in respect of this report and only accepts liability to the Client insofar as is expressly contained in the terms and conditions governing Intertek's provision of services to you. Intertek makes no warranties or representations either express or implied with respect to this report save as provided for in those terms and conditions. We have aimed to conduct the Review on a diligent and careful basis and we do not accept any liability to you for any loss arising out of or in connection with this report, in contract, tort, by statute or otherwise, except in the event of our gross negligence or wilful misconduct. This report shall not be reproduced unless with prior written approval from Intertek Testing Services Shenzhen Limited, Guangzhou Branch. The testing data and result issued by this report are just for scientific research, teaching, internal quality control, product research and development etc. on reference only in the territory of the People's Republic of China.



Tel +8620 28209114

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