CTI 华测检测

检测报告
Test Report

报告编号 A2250085238101005E
Report No. A2250085238101005E

报告抬头公司名称 衡所华威电子有限公司
Company Name shown on Report HYSOL HUAWEI ELECTRONICS CO., LTD.

地　　址 江苏省连云港市高新技术产业开发区振华路8号
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以下测试之样品及样品信息由申请者提供并确认
The following sample(s) and sample information was/were submitted and identified by/on the behalf of the applicant

样品名称	环氧模塑料
Sample Name	Mold Compound
样品型号	GR530, GR530-QM
Model No.	GR530, GR530-QM
生产日期	2025年1月
date of manufacture	2025年1月
样品接收日期	2025.02.19
Sample Received Date	Feb. 19, 2025
样品检测日期	2025.02.19-2025.02.26
Testing Period	Feb. 19, 2025 to Feb. 26, 2025

检测要求 根据客户要求，对所提交样品中的铅(Pb)，镉(Cd)，汞(Hg)，六价铬(Cr(VI))，多溴联苯(PBBs)，多溴二苯醚(PBDEs)，邻苯二甲酸酯，砷(As)，铍(Be)，锑(Sb)，磷(P)，氟(F)，氯(Cl)，溴(Br)，碘(I)，六溴环十二烷(HBCDD)，多环芳烃(PAHs)，四溴双酚A (TBBP-A)，中链氯化石蜡(MCCPs)，聚氯乙烯(PVC)，全氟辛酸(PFOA)，全氟辛烷磺酸(PFOS)，红磷进行测试。

Test Requested As specified by client, to test Lead (Pb), Cadmium (Cd), Mercury (Hg), Hexavalent Chromium (Cr(VI)), Polybrominated Biphenyls (PBBs), Polybrominated Diphenyl Ethers (PBDEs), Phthalates, Arsenic(As), Beryllium(Be), Antimony(Sb), Phosphorus(P), Fluorine (F), Chlorine (Cl), Bromine (Br), Iodine (I), Hexabromocyclododecane (HBCDD), Polycyclic Aromatic Hydrocarbons (PAHs), Tetrabromobisphenol A (TBBP-A), Middle Chain Chlorinated Paraffins (MCCPs), Polyvinyl Chloride (PVC), Perfluorooctanoic Acid(PFOA), Perfluorooctane Sulfonates(PFOS), Red phosphorus in the submitted sample(s).

检测依据/检测结果 请参见下页。
Test Method/Test Result(s) Please refer to the following page(s).

批准
Approved by

陈凯敏
实验室经理 Lab Manager

日　　期
Date 2025.02.26

No. R794241519

上海华测品标检测技术有限公司
Centre Testing International Pinbiao(Shanghai) Co., Ltd.

上海市闵行区万芳路1351号
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检测依据 Test Method

测试项目 Test Item(s)	测试方法 Test Method	测试仪器 Measured Equipment(s)
铅 Lead (Pb)	IEC 62321-5:2013	ICP-OES
镉 Cadmium (Cd)	IEC 62321-5:2013	ICP-OES
汞 Mercury (Hg)	IEC 62321-4:2013+AMD1:2017 CSV	ICP-OES
六价铬 Hexavalent Chromium (Cr(VI))	IEC 62321-7-2:2017和/或IEC 62321-5:2013测试总铬含量 IEC 62321-7-2:2017 and/or determination of Total Chromium by IEC 62321-5:2013	UV-Vis/ICP-OES
多溴联苯 Polybrominated Biphenyls (PBBs)	IEC 62321-12:2023	GC-MS
多溴二苯醚 Polybrominated Diphenyl Ethers (PBDEs)	IEC 62321-12:2023	GC-MS
邻苯二甲酸酯 Phthalates (DBP, BBP, DEHP, DIBP)	IEC 62321-12:2023	GC-MS
砷 Arsenic(As)	参考US EPA 3052:1996 & US EPA 6010D:2018 Refer to US EPA 3052:1996 & US EPA 6010D:2018	ICP-OES
铍 Beryllium(Be)	参考US EPA 3052:1996 & US EPA 6010D:2018 Refer to US EPA 3052:1996 & US EPA 6010D:2018	ICP-OES
锑 Antimony(Sb)	参考US EPA 3052:1996 & US EPA 6010D:2018 Refer to US EPA 3052:1996 & US EPA 6010D:2018	ICP-OES
磷 Phosphorus(P)	参考US EPA 3052:1996 & US EPA 6010D:2018 Refer to US EPA 3052:1996 & US EPA 6010D:2018	ICP-OES
氟 Fluorine (F)	EN 14582:2016	IC
氯 Chlorine (Cl)	EN 14582:2016	IC
溴 Bromine (Br)	EN 14582:2016	IC
碘 Iodine (I)	EN 14582:2016	IC
六溴环十二烷 Hexabromocyclododecane (HBCDD)	IEC 62321-9:2021	GC-MS
多环芳烃 Polycyclic Aromatic Hydrocarbons (PAHs)	AfPS GS 2019:01 PAK	GC-MS

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检测依据 Test Method

测试项目 Test Item(s)	测试方法 Test Method	测试仪器 Measured Equipment(s)
四溴双酚A Tetrabromobisphenol A (TBBP-A)	参考US EPA 3550C:2007 & US EPA 8321B:2007 Refer to US EPA 3550C:2007 & US EPA 8321B:2007	LC-MS-MS/LC-MS
中链氯化石蜡 Middle Chain Chlorinated Paraffins (MCCPs)	参考US EPA 3550C:2007 & US EPA 8270E:2018 Refer to US EPA 3550C:2007 & US EPA 8270E:2018	GC-MS(NCI)
聚氯乙烯 Polyvinyl Chloride (PVC)	参考JY/T 001-1996 Refer to JY/T 001-1996	FT-IR
全氟辛酸 Perfluorooctanoic Acid(PFOA)	EN 17681-1:2022	LC-MS-MS
全氟辛烷磺酸 Perfluorooctane Sulfonates(PFOS)	EN 17681-1:2022	LC-MS-MS
邻苯二甲酸酯 Phthalates	IEC 62321-12:2023	GC-MS
红磷 Red phosphorus	GB/T 6040-2019, GB/T 9722-2023, GB/T 17359-2023, EPA 6010D:2018	ICP-OES, PY-GC-MS, FTIR, EM

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检测结果 Test Result(s)

测试项目 Tested Item(s)	结果 Result	方法检出限 MDL
	005	
铅 Lead (Pb)	N.D.	2 mg/kg
镉 Cadmium (Cd)	N.D.	2 mg/kg
汞 Mercury (Hg)	N.D.	2 mg/kg
六价铬 Hexavalent Chromium (Cr(VI))	N.D.	8 mg/kg

测试项目 Tested Item(s)	结果 Result	方法检出限 MDL
	005	
多溴联苯 Polybrominated Biphenyls (PBBs)		
一溴联苯 Monobromobiphenyl	N.D.	25 mg/kg
二溴联苯 Dibromobiphenyl	N.D.	25 mg/kg
三溴联苯 Tribromobiphenyl	N.D.	25 mg/kg
四溴联苯 Tetrabromobiphenyl	N.D.	25 mg/kg
五溴联苯 Pentabromobiphenyl	N.D.	25 mg/kg
六溴联苯 Hexabromobiphenyl	N.D.	25 mg/kg
七溴联苯 Heptabromobiphenyl	N.D.	25 mg/kg
八溴联苯 Octabromobiphenyl	N.D.	25 mg/kg
九溴联苯 Nonabromobiphenyl	N.D.	25 mg/kg
十溴联苯 Decabromobiphenyl	N.D.	25 mg/kg

测试项目 Tested Item(s)	结果 Result	方法检出限 MDL
	005	
多溴二苯醚 Polybrominated Diphenyl Ethers (PBDEs)		
一溴二苯醚 Monobromodiphenyl ether	N.D.	25 mg/kg
二溴二苯醚 Dibromodiphenyl ether	N.D.	25 mg/kg
三溴二苯醚 Tribromodiphenyl ether	N.D.	25 mg/kg
四溴二苯醚 Tetrabromodiphenyl ether	N.D.	25 mg/kg
五溴二苯醚 Pentabromodiphenyl ether	N.D.	25 mg/kg
六溴二苯醚 Hexabromodiphenyl ether	N.D.	25 mg/kg
七溴二苯醚 Heptabromodiphenyl ether	N.D.	25 mg/kg
八溴二苯醚 Octabromodiphenyl ether	N.D.	25 mg/kg
九溴二苯醚 Nonabromodiphenyl ether	N.D.	25 mg/kg
十溴二苯醚 Decabromodiphenyl ether	N.D.	25 mg/kg

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测试项目 Tested Item(s)	结果 Result	方法检出限 MDL
	005	
邻苯二甲酸酯 Phthalates (DBP, BBP, DEHP, DIBP)		
邻苯二甲酸二丁酯 Dibutyl phthalate (DBP) CAS#:84-74-2	N.D.	50 mg/kg
邻苯二甲酸丁基苄基酯 Butyl benzyl phthalate (BBP) CAS#:85-68-7	N.D.	50 mg/kg
邻苯二甲酸二(2-乙基)己酯 Di-(2-ethylhexyl phthalate (DEHP) CAS#:117-81-7	N.D.	50 mg/kg
邻苯二甲酸二异丁酯 Diisobutyl phthalate (DIBP) CAS#:84-69-5	N.D.	50 mg/kg

测试项目 Tested Item(s)	结果 Result	方法检出限 MDL
	005	
砷 Arsenic (As)	N.D.	10 mg/kg
铍 Beryllium (Be)	N.D.	10 mg/kg
锑 Antimony (Sb)	N.D.	10 mg/kg
磷 Phosphorus (P)	148 mg/kg	20 mg/kg

测试项目 Tested Item(s)	结果 Result	方法检出限 MDL
	005	
氟 Fluorine (F)	N.D.	10 mg/kg
氯 Chlorine (Cl)	N.D.	10 mg/kg
溴 Bromine (Br)	N.D.	10 mg/kg
碘 Iodine (I)	N.D.	10 mg/kg

测试项目 Tested Item(s)	结果 Result	方法检出限 MDL
	005	
六溴环十二烷 Hexabromocyclododecane (HBCDD)	N.D.	20 mg/kg

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测试项目 Tested Item(s)	结果 Result	方法检出限 MDL
	005	
多环芳烃 Polycyclic Aromatic Hydrocarbons (PAHs)		
萘 Naphthalene	N.D.	0.2 mg/kg
菲 Phenanthrene	2.5 mg/kg	0.2 mg/kg
蒽 Anthracene	0.4 mg/kg	0.2 mg/kg
荧蒽 Fluoranthene	0.7 mg/kg	0.2 mg/kg
芘 Pyrene	0.4 mg/kg	0.2 mg/kg
䓛 Chrysene	N.D.	0.2 mg/kg
苯并(a)蒽 Benzo(a)anthracene	N.D.	0.2 mg/kg
苯并(b)荧蒽 Benzo(b)fluoranthene	N.D.	0.2 mg/kg
苯并(k)荧蒽 Benzo(k)fluoranthene	N.D.	0.2 mg/kg
苯并(j)荧蒽 Benzo(j)fluoranthene	N.D.	0.2 mg/kg
苯并(a)芘 Benzo(a)pyrene	N.D.	0.2 mg/kg
苯并(e)芘 Benzo(e)pyrene	N.D.	0.2 mg/kg
二苯并(a,h)蒽 Dibenzo(a,h)anthracene	N.D.	0.2 mg/kg
苯并(g,h,i)苝 Benzo(g,h,i)perylene	N.D.	0.2 mg/kg
茚并(1,2,3-cd)芘 Indeno(1,2,3-cd)pyrene	N.D.	0.2 mg/kg
菲,蒽,荧蒽,芘总量 Sum (Phenanthrene, Anthracene, Fluoranthene, Pyrene)	4.0 mg/kg	/
15 PAHs总量 Sum 15 PAHs	4.0 mg/kg	/

测试项目 Tested Item(s)	结果 Result	方法检出限 MDL
	005	
四溴双酚A Tetrabromobisphenol A (TBBP-A)	N.D.	5 mg/kg

测试项目 Tested Item(s)	结果 Result	方法检出限 MDL
	005	
中链氯化石蜡 Middle Chain Chlorinated Paraffins (MCCPs)	N.D.	100 mg/kg

测试项目 Tested Item(s)	结果 Result	方法检出限 MDL
	005	
聚氯乙烯 Polyvinyl Chloride (PVC)	阴性 Negative	/

测试项目 Tested Item(s)	结果 Result	方法检出限 MDL
	005	
全氟辛酸 Perfluorooctanoic Acid (PFOA)	N.D.	0.01 mg/kg

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测试项目 Tested Item(s)	结果 Result	方法检出限 MDL
	005	
全氟辛烷磺酸 Perfluorooctane Sulfonates (PFOS)	N.D.	0.01 mg/kg

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测试项目 Tested Item(s)	结果 Result	方法检出限 MDL
	005	
邻苯二甲酸酯 Phthalates		
邻苯二甲酸二丁酯 Dibutyl phthalate (DBP) CAS#:84-74-2	N.D.	50 mg/kg
邻苯二甲酸丁基苄基酯 Butyl benzyl phthalate (BBP) CAS#:85-68-7	N.D.	50 mg/kg
邻苯二甲酸二甲酯 Dimethyl phthalate (DMP) CAS#:131-11-3	N.D.	100 mg/kg
邻苯二甲酸二己酯 Di-n-hexyl phthalate (DNHP/DHEXP) CAS#:84-75-3	N.D.	100 mg/kg
邻苯二甲酸二戊酯 Dipentyl phthalate (DPP/DPENP) CAS#:131-18-0	N.D.	100 mg/kg
邻苯二甲酸二(2-乙基)己酯 Di-(2-ethylhexyl phthalate (DEHP) CAS#:117-81-7	N.D.	50 mg/kg
邻苯二甲酸二正辛酯 Di-n-octyl phthalate (DNOP) CAS#:117-84-0	N.D.	100 mg/kg
邻苯二甲酸二异壬酯 Di-isononyl phthalate (DINP) CAS#:28553-12-0,68515-48-0	N.D.	100 mg/kg
邻苯二甲酸二异癸酯 Di-iso-decyl phthalate (DIDP) CAS#:26761-40-0,68515-49-1	N.D.	100 mg/kg
邻苯二甲酸二异丁酯 Diisobutyl phthalate (DIBP) CAS#:84-69-5	N.D.	50 mg/kg
邻苯二甲酸二(2-乙氧基)乙酯 Bis(2-ethoxyethyl) phthalate (DEEP) CAS#:605-54-9	N.D.	100 mg/kg
邻苯二甲酸二壬酯 Dinonyl phthalate (DNP) CAS#:84-76-4	N.D.	100 mg/kg
邻苯二甲酸二烯丙酯 Diallyl phthalate (DAP) CAS#:131-17-9	N.D.	100 mg/kg

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邻苯二甲酸二乙酯 Diethyl phthalate (DEP) CAS#:84-66-2	N.D.	100 mg/kg
邻苯二甲酸二异庚酯 Di-iso-heptyl-phthalates (DIHpP) CAS#:41451-28-9	N.D.	100 mg/kg
邻苯二甲酸二异己酯 Di-iso-hexyl-phthalates (DIHxP) CAS#:71850-09-4	N.D.	100 mg/kg
邻苯二甲酸二异十一烷酯 Diisoundecyl phthalate (DIUP) CAS#:96507-86-7	N.D.	100 mg/kg
*邻苯二甲酸二异十一烷酯(支型和线性结构) Diundecyl phthalate, branched and linear (DIUP) CAS#:85507-79-5	N.D.	100 mg/kg
邻苯二甲酸二异戊酯 Diisopentylphthalate (DIPP) CAS#:605-50-5	N.D.	100 mg/kg
邻苯二甲酸二异辛酯 Diisooctyl phthalate (DIOP) CAS#:27554-26-3	N.D.	100 mg/kg
邻苯二甲酸二正十三烷酯 Ditridecyl phthalate (DITDP) CAS#:68515-47-9	N.D.	100 mg/kg
邻苯二甲酸双十三烷酯 Ditrydecyl phthalates (DTDP) CAS#:119-06-2	N.D.	100 mg/kg
邻苯二甲酸双十一烷酯 Diundecyl phthalates (DUP) CAS#:3648-20-2	N.D.	100 mg/kg
*邻苯二甲酸烷基酯(C6-8支型结构,C7富集) 1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich (DIHP) CAS#:71888-89-6	N.D.	100 mg/kg
*邻苯二甲酸烷基酯(C7-11支型和线性结构) 1,2-Benzenedicarboxylic acid, di-(C7-11)-branched and linear alkyl esters (DHNUP) CAS#:68515-42-4	N.D.	100 mg/kg
邻苯二甲酸正戊基异戊基酯 N-Pentyl-isopentyl phthalate (NIPP) CAS#:776297-69-9	N.D.	100 mg/kg

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邻苯二甲酸正辛正癸酯 Decyl octyl phthalate (nDnOP) CAS#:119-07-3	N.D.	100 mg/kg
己二酸二异壬酯 Diisononyl adipate (DINA) CAS#:33703-08-1	N.D.	100 mg/kg
对苯二甲酸二甲酯 Dimethyl terephthalates (DMT) CAS#:120-61-6	N.D.	100 mg/kg
对苯二甲酸二辛酯 Dioctyl terephthalate (DOTP) CAS#:6422-86-2	N.D.	100 mg/kg
己二甲酸二乙基己基酯 Di(2-ethylhexyl) Adipate (DEHA) CAS#:103-23-1	N.D.	100 mg/kg
*支链和直链1,2-苯二羧二戊酯 1,2-Benzenedicarboxylic acid, dipentylester, branched and linear (BADP) CAS#:84777-06-0	N.D.	100 mg/kg
邻苯二甲酸二（2-丙基庚）酯 Di-2-propylheptyl phthalate (DPHpP) CAS#:53306-54-0	N.D.	100 mg/kg
邻苯二甲酸己基（2-乙基己基）酯 Hexyl 2-ethylhexyl phthalate (HEHP) CAS#:75673-16-4	N.D.	100 mg/kg
*邻苯二甲酸二（C6-C10）烷基酯：（癸基，辛基，己基）酯与1,2-邻苯二甲酸的复合物且邻苯二甲酸二己酯含量≥0.3% 1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters; 1,2- benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters with ≥ 0.3% of dihexyl phthalate CAS#:68515-51-5; 68648-93-1	N.D.	100 mg/kg
邻苯二甲酸二（4-甲基-2-戊基）酯 Bis-(4-methyl-2pentyl) phthalate (BMPP) CAS#:146-50-9	N.D.	100 mg/kg
*邻苯二甲酸二己酯，直链和支链 1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear (NHIHP) CAS#:68515-50-4	N.D.	100 mg/kg

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邻苯二甲酸二环己酯 Dicyclohexyl phthalate (DCHP) CAS#:84-61-7	N.D.	100 mg/kg
邻苯二甲酸二癸酯 Didecyl phthalate (DnDP) CAS#:84-77-5	N.D.	100 mg/kg
邻苯二甲酸二庚酯 Diheptyl phthalate (DHP) CAS#:3648-21-3	N.D.	100 mg/kg
邻苯二甲酸二丙酯 Dipropyl phthalate (DPrP) CAS#:131-16-8	N.D.	100 mg/kg
邻苯二甲酸二苄酯 Dibenzyl phthalate (DBzP) CAS#:523-31-9	N.D.	100 mg/kg
邻苯二甲酸二苯酯 Diphenyl phthalate (DPhP) CAS#:84-62-8	N.D.	100 mg/kg
邻苯二甲酸二(2-甲氧基)乙酯 Bis(2-methoxyethyl) phthalate (DMEP) CAS#:117-82-8	N.D.	100 mg/kg
邻苯二甲酸二(2-丁氧基)乙酯 Bis(2-n-butoxyethyl) phthalate (DBEP) CAS#:117-83-9	N.D.	100 mg/kg
邻苯二甲酸丁基葵酯 Butyl decyl phthalates (BDP) CAS#:89-19-0	N.D.	100 mg/kg
己二酸二辛酯 Dioctyl adipate (DNOA) CAS#:123-79-5	N.D.	100 mg/kg
邻苯二甲酸丁基环己基酯 1-Butyl-2-cyclohexyl phthalate (BCyP) CAS#:84-64-0	N.D.	100 mg/kg
偏苯三酸三辛酯 Trioctyl trimellitate (TOTM) CAS#:3319-31-1	N.D.	100 mg/kg
邻苯二甲酸丁基辛基酯 Butyl octyl phthalate (BOP) CAS#:84-78-6	N.D.	100 mg/kg
间苯二甲酸二辛酯 Bis(2-ethylhexyl) isophthalate (DOIP) CAS#:137-89-3	N.D.	100 mg/kg

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乙酰柠檬酸三丁酯 Acetyl tributyl citrate (TBOA) CAS#:77-90-7	N.D.	100 mg/kg
*1, 2-环已烷二羧酸二异壬基酯 Diisononyl hexahydrophthalate (DINCH) CAS#:166412-78-8;474919-59-0;	N.D.	100 mg/kg
对苯二甲酸双(2-羟基乙基)酯 Bis(hydroxyethyl) terephthalate (BHET) CAS#:959-26-2	N.D.	100 mg/kg

测试项目 Tested Item(s)	结果 Result	方法检出限 MDL
	005	
红磷 Red phosphorus	N.D.	500 mg/kg

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样品/部位描述 Sample/Part Description

序号 No.	CTI样品ID CTI Sample ID	描述 Description
1	005	黑色固体 Black solid

备注: **对于检测铅，镉，汞，砷，铍，锑，磷之样品已消解完全。**
根据客户声明，本报告“样品信息”中的多信息原因可能包含(但不限于):供给不同客户、销往不同的国家或地区、曾用名或多种物质的混合物等情况。
-*=由于这些物质是UVCB物质(未知成分或可变成分的，复杂反应物或生物材料的物质)，由各种不同的成分组成，所以这些物质的测试结果是由选定的具有代表性的物质的主要组成成分的测试结果换算而来的。

-N.D. = 未检出 (小于方法检出限)
-mg/kg = ppm = 百万分之一
-阴性表示不含有聚氯乙烯(PVC)

Remark: **The sample(s) had been dissolved totally tested for Lead, Cadmium, Mercury, Arsenic, Beryllium, Antimony, Phosphorus.**
According to the client's statement, the reasons for the multiple information in the "sample information" of this report may include (but are not limited to): supplying to different buyers, being sold to different countries or regions, former names, or mixtures of several substances.
-*=In view of the substances are established as UVCB substances(substances of unknown or variable composition, complex reaction products or biological materials) consisting of different and variable constituents, the test results are calculated based on the main constituents of the representative compounds for substances.

-MDL = Method Detection Limit
-N.D. = Not Detected (<MDL)
-mg/kg = ppm = parts per million
-Negative = Not contained Polyvinyl Chloride(PVC)

注释: **本报告中的数据结果供科研、教学、企业内部质量控制、企业产品研发等目的用。**

Note: **The testing data and result(s) in this report is(are) just for scientific research, education, internal quality control and product development etc.**

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可接触的表面材料中PAHs含量限值(mg/kg)(按风险评估的结果分类)
Maximum PAHs limits (mg/kg) for the materials with relevant contact/grip and operating surfaces that are to be categorised based on the results of the risk assessment

参数 Parameters	一类 Category 1	二类 Category 2		三类 Category 3	
	可放入口中的材料，或预期和皮肤接触时间超过30秒(长时间接触)2009/48/EC定义的玩具材料或供3岁以下儿童使用的产品 Materials intended to be placed in the mouth, or materials in toys according to Directive 2009/48/EC or materials for the use by children up to 3 years of age coming into long-term contact with skin (more than 30s) during the intended use	未包含在第一类材料中，预期和皮肤接触时间超过30秒（长时间接触），或者和皮肤短时间频繁接触**的材料 Materials not covered by category 1, coming into long-term contact (more than 30s) or short-term repetitive contact** with skin during the intended or foreseeable use		未包含在第一类和第二类材料中，预期和皮肤接触时间不超过30秒（短时间接触）的材料 Materials not covered by category 1 nor by category 2, coming into short-term contact (up to 30s) with skin during the intended or foreseeable use	
		供儿童（< 14岁）使用的产品（包括主动和被动直接接触） Use by children (< 14 years) (include both active and passive direct contact)	其他类产品 Other consumer products	供儿童（< 14岁）使用的产品（包括主动和被动直接接触） Use by children (< 14 years) (include both active and passive direct contact)	其他类产品 Other consumer products
苯并(a)芘 Benzo(a)pyrene	< 0.2	< 0.2	< 0.5	< 0.5	< 1
苯并(e)芘 Benzo(e)pyrene	< 0.2	< 0.2	< 0.5	< 0.5	< 1
苯并(a)蒽 Benzo(a)anthracene	< 0.2	< 0.2	< 0.5	< 0.5	< 1
苯并(b)荧蒽 Benzo(b)fluoranthene	< 0.2	< 0.2	< 0.5	< 0.5	< 1
苯并(j)荧蒽 Benzo(j)fluoranthene	< 0.2	< 0.2	< 0.5	< 0.5	< 1
苯并(k)荧蒽 Benzo(k)fluoranthene	< 0.2	< 0.2	< 0.5	< 0.5	< 1
䓛Chrysene	< 0.2	< 0.2	< 0.5	< 0.5	< 1
二苯并(a,h)蒽 Dibenzo(a,h)anthracene	< 0.2	< 0.2	< 0.5	< 0.5	< 1
苯并(g,h,i)苝 Benzo(g,h,i)perylene	< 0.2	< 0.2	< 0.5	< 0.5	< 1
茚并(1,2,3-cd)芘 Indenol(1,2,3-cd)pyrene	< 0.2	< 0.2	< 0.5	< 0.5	< 1

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菲,蒽,荧蒽,芘 Phenanthrene, Anthracene, Fluoranthene, Pyrene	总量 < 1 < 1 Sum	总量 < 5 < 5 Sum	总量 < 10 < 10 Sum	总量 < 20 < 20 Sum	总量 < 50 < 50 Sum
萘Naphthalene	< 1	< 2		< 10	
15 PAHs总量 Sum 15 PAHs	< 1	< 5	< 10	< 20	< 50

**"短时间频繁接触"来自REACH法规附录XVII第50项的修订案(法规 (EU) No. 1272/2013)
Definition "short-term repetitive contact" taken from REACH Annex XVII entry 50 amendment (REGULATION (EU) No.1272/2013)

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检测流程 Test Process

1. 铅(Pb), 镉(Cd), 铬(Cr)
Lead (Pb), Cadmium (Cd), Chromium (Cr)

2. 汞(Hg)
Mercury (Hg)

3. 六价铬(Cr(VI))
Hexavalent Chromium (Cr(VI))

4. 多溴联苯(PBBs)， 多溴二苯醚(PBDEs)
Polybrominated Biphenyls (PBBs), Polybrominated Diphenyl Ethers (PBDEs)

5. 邻苯二甲酸酯
Phthalates

6. 砷(As)， 铍(Be)， 锑(Sb)， 磷(P)
Arsenic(As), Beryllium(Be), Antimony(Sb), Phosphorus(P)

7. 氟(F)， 氯(Cl)， 溴(Br)， 碘(I)
Fluorine (F), Chlorine (Cl), Bromine (Br), Iodine (I)

8. 六溴环十二烷(HBCDD)
Hexabromocyclododecane (HBCDD)

9. 多环芳烃(PAHs)
Polycyclic Aromatic Hydrocarbons (PAHs)

10. 四溴双酚A (TBBP-A)
Tetrabromobisphenol A (TBBP-A)

11. 中链氯化石蜡(MCCPs)
Middle Chain Chlorinated Paraffins (MCCPs)

12. 聚氯乙烯(PVC)
Polyvinyl Chloride (PVC)

13. 全氟辛酸(PFOA)， 全氟辛烷磺酸(PFOS)
Perfluorooctanoic Acid(PFOA), Perfluorooctane Sulfonates(PFOS)

14. 红磷
Red phosphorus

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样品图片
Photo(s) of the sample(s)

声明Statement：

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报告结束
*** End of report ***