

## Test Report 检测报告

Report No.报告编号:  
U11205250611604-2ZQuery Password  
查询密码: QW8752Date: Jul. 31, 2025  
日期: 2025年7月31日Page 1 of 23  
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**Applicant** Ropla Elektronik HP Sp. z o.o.  
**委托单位:**

**Contact information** Wroclawska 1C, 52-200 Suchy Dwor POLAND  
**联络信息:**

**The following sample(s) was (were) submitted and identified by client as:**

以下测试样品信息由申请者所提供确认:

Sample Name 样品名称 : Multilayer ceramic capacitors  
Model No.型号 : 0603  
Series Model 系列型号 : 0201, 0402, 0603, 0805, 1206, 1210, 1808, 1812, 2220  
Trade Mark 商标 :



**Manufacturer 制造商** : Ropla Elektronik HP Sp. z o.o.  
**Address 地址** : Wroclawska 1C, 52-200 Suchy Dwor POLAND  
**Received Date 接收日期** : Jun. 11, 2025  
2025年6月11日  
**Testing Period 检测日期 1** : From Jun. 12, 2025 to Jun. 16, 2025  
2025年6月12日 ~ 2025年6月16日  
**Testing Period 检测日期 2** : From Jul. 25, 2025 to Jul. 31, 2025  
2025年7月25日 ~ 2025年7月31日  
**Test Request 检测要求** : Please refer to next page(s). 请参见下页  
**Test Result(s)检测结果** : Please refer to next page(s). 请参见下页

Shen Zhen UONE Test Co., LTD.  
深圳市宇冠检测有限公司

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Summary of Test Results (Tested parts are required partially by client):

检测内容 (依据客户要求, 进行指定性测试) :

## TEST REQUEST

### 测试要求

Based on Candidate List of Substances of Very High Concern (SVHC) for authorization published by European Chemicals Agency (ECHA) Regarding Regulation (EC) No. 1907/2006 and its subsequent amendments concerning REACH.

参照欧洲化学品管理局(ECHA)颁布的 REACH 法规(EC) No.1907/2006 及其修订条例规定的高度关注的物质的候选名单。

- (1) 250 Substances of Very High Concern (SVHC)  
250 种高度关注物质(SVHC)

## CONCLUSION

### 结论

**PASS\***  
合格\*

PASS\* = According to the requirement of client, the test result of SVHC are <0.1% (w/w) in the submitted sample.

合格\* = 根据客户要求, 送检样品中 SVHC 的测试结果是<0.1% (w/w)。

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## Test Material List 测试材料清单:

Material No. 材料编号	Description (Location) 描述 (位置)	Photo(s) of tested materials 测试材料照片
1	Brown body (capacitor) 棕色本体 (电容)	

## Test Result(s) 测试结果:

## (1) 250 Substances of Very High Concern 250 种高度关注物质 (SVHC)

**Test Method:** In house method, acid digestion, extracted with organic solvent, analyzed by ICP-OES & UV-Vis & IC & GC-MS & HPLC-DAD & HPLC-MS-MS.

**测试方法:** 内部方法, 采用酸消解或有机溶剂萃取, 使用 ICP-OES & UV-Vis & IC & GC-MS & HPLC-DAD & HPLC-MS-MS 分析。

Batch 批次	Substance Name 物质名称	CAS No. CAS 编号	RL 报告限 (%)	Concentration 浓度(%)
				1
--	All tested SVHC in candidate list 清单中所有检测的 SVHC	--	0.005	N.D.

## Full list of tested SVHC 250 items

## SVHC 250 项清单

Batch 批次	No. 序号	Substance Name 物质名称	CAS No. CAS 编号	RL (%)
I	1	Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins) 短链氯化石蜡 (C10-13)	85535-84-8	0.005
I	2	Anthracene 蒽	120-12-7	0.005
I	3	Benzyl butyl phthalate 邻苯二甲酸丁基苄酯(BBP)	85-68-7	0.005
I	4	Bis[2-ethyl(hexyl)phthalate] (DEHP) 邻苯二甲酸二(2-乙基己基)酯(DEHP)	117-81-7	0.005
I	5	Bis(tributyltin)oxide 双三丁基氧化锡 (TBTO)	56-35-9	0.005
I	6	Cobalt dichloride <sup>△</sup> 二氯化钴 <sup>△</sup>	7646-79-9	0.005

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Batch 批次	No. 序号	Substance Name 物质名称	CAS No. CAS 编号	RL (%)
I	7	Diarsenic pentaoxide 五氧化二砷 <sup>△</sup>	1303-28-2	0.005
I	8	Diarsenic trioxide 三氧化二砷 <sup>△</sup>	1327-53-3	0.005
I	9	Dibutyl phthalate 邻苯二甲酸二丁酯(DBP)	84-74-2	0.005
I	10	4, 4'- Diaminodiphenylmethane 4,4'- 二氨基二苯甲烷	101-77-9	0.005
I	11	5-tert-butyl-2,4,6-trinitro-m- xylene (Musk xylene) 二甲苯麝香	81-15-2	0.005
I	12	Hexabromocyclododecane (HBCDD) and diastereoisomers ( $\alpha$ -HBCDD, $\beta$ -HBCDD, $\gamma$ - HBCDD) 六溴环十二烷 (HBCDD)及其非对映异构体 ( $\alpha$ -HBCDD, $\beta$ -HBCDD, $\gamma$ - HBCDD)	25637-99-4 3194-55-6 (134237-50-6 134237-51-7 134237-52-8)	0.005
I	13	Lead hydrogen arsenate 砷酸氢铅 <sup>△</sup>	7784-40-9	0.005
I	14	Sodium dichromate 重铬酸钠 <sup>△</sup>	10588-01-9 7789-12-0	0.005
I	15	Triethyl arsenate 三乙基砷酸酯 <sup>△</sup>	15606-95-8	0.005
II	16	Anthracene oil 蒽油	90640-80-5	0.005
II	17	Anthracene oil, anthracene paste, distn. Lights 蒽油, 蒽糊, 轻油	91995-17-4	0.005
II	18	Anthracene oil, anthracene paste, anthracene fraction 蒽油, 蒽糊, 蒽馏分	91995-15-2	0.005
II	19	Anthracene oil, anthracene-low 蒽油, 低蒽量	90640-82-7	0.005
II	20	Anthracene oil, anthracene paste 蒽油, 蒽糊	90640-81-6	0.005
II	21	Coal tar pitch, high temperature 高温煤沥青	65996-93-2	0.005
II	22	Acrylamide 丙烯酰胺	79-06-1	0.005
II	23	2,4-Dinitrotoluene 2,4-二硝基甲苯	121-14-2	0.005
II	24	Diisobutyl phthalate 邻苯二甲酸二异丁酯(DIBP)	84-69-5	0.005
II	25	Lead chromate 铬酸铅 <sup>△</sup>	7758-97-6	0.005
II	26	Lead chromate molybdate Sulphate red (C.I. Pigment Red 104) 硫酸铅铬钼红(C.I.颜料红 104) <sup>△</sup>	12656-85-8	0.005
II	27	Lead sulfochromate yellow(C.I. Pigment Yellow 34) 铅黄(C.I.颜料黄 34) <sup>△</sup>	1344-37-2	0.005

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II	28	Tris(2-chloroethyl) phosphate 三(2-氯乙基)磷酸酯	115-96-8	0.005
III	29	Trichloroethylene 三氯乙烯	79-01-6	0.005
III	30	Boric acid 硼酸 <sup>△</sup>	10043-35-3 11113-50-1	0.005
III	31	Disodium tetraborate, anhydrous 无水四硼酸钠 <sup>△</sup>	1330-43-4 12179-04-3 1303-96-4	0.005
III	32	Tetraboron disodium heptaoxide, hydrate 七水合四硼酸钠 <sup>△</sup>	12267-73-1	0.005
III	33	Sodium chromate 铬酸钠 <sup>△</sup>	7775-11-3	0.005
III	34	Potassium chromate 铬酸钾 <sup>△</sup>	7789-00-6	0.005
III	35	Ammonium dichromate 重铬酸铵 <sup>△</sup>	7789-09-5	0.005
III	36	Potassium dichromate 重铬酸钾 <sup>△</sup>	7778-50-9	0.005
IV	37	Cobalt(II) sulphate 硫酸钴 <sup>△</sup>	10124-43-3	0.005
IV	38	Cobalt(II) dinitrate 硝酸钴 <sup>△</sup>	10141-05-6	0.005
IV	39	Cobalt(II) carbonate 碳酸钴 <sup>△</sup>	513-79-1	0.005
IV	40	Cobalt(II) diacetate 二乙酸钴 <sup>△</sup>	71-48-7	0.005
IV	41	2-Methoxyethanol 乙二醇单甲醚	109-86-4	0.005
IV	42	2-Ethoxyethanol 乙二醇单乙醚	110-80-5	0.005
IV	43	Chromium trioxide 铬酸酐 <sup>△</sup>	1333-82-0	0.005
IV	44	Acids generated from chromium trioxide and their oligomers: 铬酸酐产生的低聚物 Chromium acid 铬酸 <sup>△</sup> Dichromium acid 重铬酸 <sup>△</sup> Oligomers of chromic acid and dichromic acid 铬酸和重铬酸的低聚物 <sup>△</sup>	/ 7738-94-5 13530-68-2 /	0.005
V	45	2-Ethoxyethylacetate 3-醋酸二醇乙醚	111-15-9	0.005
V	46	1,2-Benzenedicarboxylic acid, di-C7-11 branched and linear alkyl esters 1,2-苯二酸-二(C7-11 支链与直链)烷基(醇)酯, 邻苯二酸-二(C7, C9, C11)烷基酯(DHNUP)	68515-42-4	0.005

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V	47	Hydrazine 水合肼	7803-57-8, 302-01-2	0.005
V	48	1-methyl-2-pyrrolidone 1-甲基-2-吡咯烷酮	872-50-4	0.005
V	49	1,2,3-trichloropropane 1,2,3-三氯丙烷	96-18-4	0.005
V	50	1, 2-benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich 邻苯二甲酸二 C6-8 支链烷基酯(富 C7) (DIHP)	71888-89-6	0.005
V	51	Strontium chromate 铬酸锶 <sup>△</sup>	7789-06-2	0.005
VI	52	Dichromium tris(chromate) 铬酸铬 <sup>△</sup>	24613-89-6	0.005
VI	53	Potassium hydroxyoctaoxodizincatedi- Chromate 氢氧化铬酸锌钾 <sup>△</sup>	11103-86-9	0.005
VI	54	Pentazinc chromate octahydroxide 锌黄(C.I.颜料黄 36) <sup>△</sup>	49663-84-5	0.005
VI	55	Aluminosilicate, Refractory Ceramic Fibres ( RCF) 铝硅酸盐, 难熔陶瓷纤维 <sup>△</sup>	/	0.005
VI	56	Zirconia Aluminosilicate, Refractory Ceramic Fibres (Zr-RCF) 铝硅酸锆, 难熔陶瓷纤维 <sup>△</sup>	/	0.005
VI	57	Formaldehyde, oligomeric reaction products with aniline (technical MDA) 甲醛苯胺共聚物	25214-70-4	0.005
VI	58	Bis(2-methoxyethyl) phthalate 邻苯二甲酸二甲氧乙酯	117-82-8	0.005
VI	59	2-Methoxyaniline; o-Anisidine 3-邻氨基苯甲醚	90-04-0	0.005
VI	60	4-(1,1,3,3-tetramethylbutyl)phenol,(4-tert-Octylphenol) 对特辛基苯酚	140-66-9	0.005
VI	61	1,2-Dichloroethane 1,2-二氯乙烷	107-06-2	0.005
VI	62	Bis(2-methoxyethyl) ether 二乙二醇二甲醚	111-96-6	0.005
VI	63	Arsenic acid 砷酸 <sup>△</sup>	7778-39-4	0.005
VI	64	Calcium arsenate 砷酸钙 <sup>△</sup>	7778-44-1	0.005
VI	65	Trilead diarsenate 砷酸铅 <sup>△</sup>	3687-31-8	0.005
VI	66	N,N-dimethylacetamide N,N-二甲基乙酰胺(DMAC)	127-19-5	0.005
VI	67	4,4'-methylene-bis(2-chloroaniline) 4,4'-亚甲基双-2-氯苯胺(MOCA)	101-14-4	0.005

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VI	68	Phenolphthalein 酚酞	77-09-8	0.005
VI	69	Lead azide Lead diazide 迭氮化铅 <sup>△</sup>	13424-46-9	0.005
VI	70	Lead styphnate 2,4,6-三硝基苯二酚铅 <sup>△</sup>	15245-44-0	0.005
VI	71	Lead dipicrate 苦味酸铅 <sup>△</sup>	6477-64-1	0.005
VII	72	Methoxyethoxy ethane (TEGDME; triglyme) 三甘醇二甲醚	112-49-2	0.005
VII	73	1,2-dimethoxyethane; ethylene glycol dimethyl ether(EGDME) 乙二醇二甲醚	110-71-4	0.005
VII	74	Diboron trioxide 三氧化二硼 <sup>△</sup>	1303-86-2	0.005
VII	75	Formamide 甲酰胺	75-12-7	0.005
VII	76	Lead(II) bis(methanesulfonate) 甲基磺酸铅 <sup>△</sup>	17570-76-2	0.005
VII	77	1,3,5-tris (oxiranylmethyl) -1,3,5 -triazine-2,4,6 (1H,3H,5H)-trione (TGIC) 1,3,5-三缩水甘油-S-三嗪三酮	2451-62-9	0.005
VII	78	1,3,5-tris [(2Sand2R)-2,3 -epoxypropyl] 1,3,5-triazine-2,4,6- (1H,3H,5H)-trione (β-TGIC) 异氰脲酸B-三缩水甘油酯	59653-74-6	0.005
VII	79	4,4'-bis (dimethylamino) benzophenone (Michler's ketone) 4,4'-二(N, N-二甲氨基)二苯甲酮	90-94-8	0.005
VII	80	N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base) 4,4'-(对二甲氨基)二苯基甲烷	101-61-1	0.005
VII	81	[4-[[4-anilino-1-naphthyl][4-(dimethylamino)phenyl]methylene] cyclohexa-2,5-dien-1-ylidene] dimethylammonium chloride(C.I. Basic Blue 26) 碱性蓝 26	2580-56-5	0.005
VII	82	[4-[4,4'-bis(dimethylamino) benzhydrylidene] cyclohexa -2,5- dien-1-ylidene] dimethylammonium chloride(C.I. Basic Violet 3) 结晶紫	548-62-9	0.005
VII	83	4,4'-bis(dimethylamino)-4''-(methylamino)trityl alcohol α,α-二[(二甲氨基)苯基]-4-甲氨基苯甲醇	561-41-1	0.005
VII	84	α,α-Bis[4-(dimethylamino)phenyl]-4 (phenylamino)naphthalene-1 -methanol (C.I. Solvent Blue 4) 溶剂蓝 4	6786-83-0	0.005
VIII	85	Bis(pentabromophenyl) ether (decabromodiphenyl ether; DecaBDE) 十溴联苯醚	1163-19-5	0.005
VIII	86	Pentacosafuorotridecanoic acid 全氟十三烷酸	72629-94-8	0.005

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VIII	87	Tricosafluorododecanoic acid 全氟十二烷酸	307-55-1	0.005
VIII	88	Henicosafuoroundecanoic acid 全氟十一烷酸	2058-94-8	0.005
VIII	89	Heptacosafuorotetradecanoic acid 全氟十四烷酸	376-06-7	0.005
VIII	90	Diazene-1,2-dicarboxamide (C,C'-azodi(formamide)) 偶氮二甲酰胺	123-77-3	0.005
VIII	91	Cyclohexane-1,2-dicarboxylic anhydride [1] cis-cyclohexane-1,2-dicarboxylic anhydride [2] trans-cyclohexane-1,2-dicarboxylic anhydride [3] [The individual cis- [2] and trans- [3] isomer substances and all possible combinations of the cis- and trans-isomers [1] are covered by this entry] 六氢邻苯二甲酸酐, 包括该物质的左旋、右旋单体以及所有左、右旋的组合	85-42-7 13149-00-3 14166-21-3	0.005
VIII	92	Hexahydromethylphthalic anhydride [1], Hexahydro-4-methylphthalic anhydride [2], Hexahydro-1-methylphthalic anhydride [3], Hexahydro-3-methylphthalic anhydride [4] [The individual isomers [2], [3] and [4] (including their cis- and trans- stereo isomeric forms) and all possible combinations of the isomers [1] are covered by this entry] 甲基六氢苯酐、4-甲基六氢苯酐、甲基六氢化邻苯二甲酸酐、3-甲基六氢苯二甲酯酐	25550-51-0 19438-60-9 48122-14-1 57110-29-9	0.005
VIII	93	4-Nonylphenol, branched and linear[substances with a linear and/or branched alkyl chain with a carbon number of 9 covalently bound in position 4 to phenol,covering also UVCB- and well-defined substances which include any of the individual isomers or a combination thereof] 分支或线性的壬基酚, 含有线性或分支、共价绑定苯酚的9个碳烷基链的物质, 包括 UVCB 物质以及任何含有独立或组合的界定明确的同分异构体的物质	/	0.005
VIII	94	4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated [covering well-defined substances and UVCB substances, polymers and homologues] 辛基酚聚醚-9, 包括界定明确的物质以及 UVCB 物质、聚合物和同系物	/	0.005
VIII	95	Methoxyacetic acid 甲氧基乙酸	625-45-6	0.005
VIII	96	N,N-dimethylformamide N,N-二甲基甲酰胺	68-12-2	0.005
VIII	97	Dibutyltin dichloride (DBTC) 二丁基二氯化锡	683-18-1	0.005
VIII	98	Lead monoxide (Lead oxide) 氧化铅 <sup>△</sup>	1317-36-8	0.005

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VIII	99	Orange lead (Lead tetroxide) 四氧化三铅 <sup>△</sup>	1314-41-6	0.005
VIII	100	Lead bis(tetrafluoroborate) 四氟硼酸铅 <sup>△</sup>	13814-96-5	0.005
VIII	101	Trilead bis(carbonate) dihydroxide 碱式碳酸铅 <sup>△</sup>	1319-46-6	0.005
VIII	102	Lead titanium trioxide 钛酸铅 <sup>△</sup>	12060-00-3	0.005
VIII	103	Lead titanium zirconium oxide 钛酸铅锆 <sup>△</sup>	12626-81-2	0.005
VIII	104	Silicic acid, lead salt 硅酸铅 <sup>△</sup>	11120-22-2	0.005
VIII	105	Silicic acid (H <sub>2</sub> Si <sub>2</sub> O <sub>5</sub> ), barium salt (1:1), lead-doped [with lead (Pb) content above the applicable generic concentration limit for 'toxicity for reproduction' Repr. 1A (CLP) or category 1 (DSD); the substance is a member of the group entry of lead compounds, with index number 082-001-00-6 in Regulation (EC) No 1272/2008] 含有铅的硅酸和钡盐 1:1 的物质 <sup>△</sup>	68784-75-8	0.005
VIII	106	1-bromopropane 溴代正丙烷	106-94-5	0.005
VIII	107	Methyloxirane 环氧丙烷	75-56-9	0.005
VIII	108	1,2-Benzenedicarboxylic acid, dipentylester, branched and linear 支链和直链 1,2-苯二羧二戊酯	84777-06-0	0.005
VIII	109	Diisopentylphthalate 邻苯二甲酸二异戊酯(DIPP)	605-50-5	0.005
VIII	110	N-pentyl-isopentylphthalate 邻苯二甲酸正戊基异戊基酯	776297-69-9	0.005
VIII	111	1,2-diethoxyethane 乙二醇二乙醚	629-14-1	0.005
VIII	112	Acetic acid, lead salt, basic 乙酸铅 <sup>△</sup>	51404-69-4	0.005
VIII	113	Lead oxide sulfate 碱式硫酸铅 <sup>△</sup>	12036-76-9	0.005
VIII	114	[Phthalato(2-)]dioxotrilead 二盐基邻苯二甲酸铅 <sup>△</sup>	69011-06-9	0.005
VIII	115	Dioxobis(stearato)trilead 双(十八酸基)二氧化三铅 <sup>△</sup>	12578-12-0	0.005
VIII	116	Fatty acids, C16-18, lead salts C16-18-脂肪酸铅盐 <sup>△</sup>	91031-62-8	0.005
VIII	117	Lead cyanamate 氨基氰铅盐 <sup>△</sup>	20837-86-9	0.005
VIII	118	Lead dinitrate 硝酸铅 <sup>△</sup>	10099-74-8	0.005

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VIII	119	Pentalead tetraoxide sulphate 氧化铅与硫酸铅的复合物 <sup>△</sup>	12065-90-6	0.005
VIII	120	Pyrochlore, antimony lead yellow 颜料黄 41 <sup>△</sup>	8012-00-8	0.005
VIII	121	Sulfurous acid, lead salt, dibasic 二碱式亚硫酸铅 <sup>△</sup>	62229-08-7	0.005
VIII	122	Tetraethyl lead 四乙基铅 <sup>△</sup>	78-00-2	0.005
VIII	123	Tetralead trioxide sulphate 三盐基硫酸铅 <sup>△</sup>	12202-17-4	0.005
VIII	124	Trilead dioxide phosphonate 二碱式亚磷酸铅 <sup>△</sup>	12141-20-7	0.005
VIII	125	Furan 呋喃	110-00-9	0.005
VIII	126	Diethyl sulphate 硫酸二乙酯	64-67-5	0.005
VIII	127	Dimethyl sulphate 硫酸二甲酯	77-78-1	0.005
VIII	128	3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine 3-乙基-2-甲基-2-(3-甲基丁基)恶唑烷	143860-04-2	0.005
VIII	129	Dinoseb (6-sec-butyl-2,4 -dinitrophenol) 二硝丁酚	88-85-7	0.005
VIII	130	4,4'-methylenedi-o-toluidine 4,4'-二氨基-3,3'-二甲基二苯甲烷	838-88-0	0.005
VIII	131	4,4'-oxydianiline and its salts 4,4'-二氨基二苯醚	101-80-4	0.005
VIII	132	4-aminoazobenzene 4-氨基苯甲酯	60-09-3	0.005
VIII	133	4-methyl-m-phenylenediamine (toluene-2,4-diamine) 2,4-二氨基甲苯	95-80-7	0.005
VIII	134	6-methoxy-m-toluidine (p-cresidine) 6-甲氧基 - 间甲苯胺	120-71-8	0.005
VIII	135	Biphenyl-4-ylamine 4-氨基联苯	92-67-1	0.005
VIII	136	o-aminoazotoluene [(4-o-tolylazo-o-toluidine)] 邻氨基偶氮甲苯	97-56-3	0.005
VIII	137	o-toluidine 邻甲基苯胺	95-53-4	0.005
VIII	138	N-methylacetamide N-甲基乙酰胺	79-16-3	0.005
IX	139	Cadmium 镉	7440-43-9	0.005

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IX	140	Ammonium pentadecafluorooctanoate 全氟辛酸铵 (APFO)	3825-26-1	0.005
IX	141	Pentadecafluorooctanoic acid 全氟辛酸(PFOA)	335-67-1	0.005
IX	142	Dipentyl phthalate 邻苯二甲酸二戊酯 (DPP)	131-18-0	0.005
IX	143	4-Nonylphenol, branched and linear, ethoxylated [substances with a linear and/or branched alkyl chain with a carbon number of 9 covalently bound in position 4 to phenol, ethoxylated covering UVCB- and well-defined substances, polymers and homologues, which include any of the individual isomers and/or combinations thereof] 支链及直链乙氧基壬基酚-包括含有9个碳烷基链及所有含有含直链或支链之9个碳烷基链 UVCB 物质、聚合物及同系物, 包括独立同分异构物及复合物	/	0.005
IX	144	Cadmium oxide 氧化镉 <sup>△</sup>	1306-19-0	0.005
X	145	Cadmium sulphide 硫化镉 <sup>△</sup>	1306-23-6	0.005
X	146	Disodium 4-amino-3- [[4'-[(2,4-diaminophenyl)azo] [1,1'-biphenyl]-4-yl]azo]-5-hydroxy-6-(phenylazo) naphthalene-2,7-disulphonate (C.I. Direct Black 38) 直接黑 38	1937-37-7	0.005
X	147	Dihexyl phthalate 邻苯二甲酸二己酯	84-75-3	0.005
X	148	Imidazolidine-2-thione; (2-imidazoline-2-thiol) 1,2-亚乙基硫脲	96-45-7	0.005
X	149	Trixylyl phosphate 磷酸三(二甲苯)酯	25155-23-1	0.005
X	150	Disodium 3,3'-[[1,1'-biphenyl] -4,4'-diylbis(azo)] bis(4-aminonaphthalene-1-sulphonate) (C.I. Direct Red28) 刚果红(直接红 28)	573-58-0	0.005
X	151	Lead di(acetate) 醋酸铅 <sup>△</sup>	301-04-2	0.005
XI	152	1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear 邻苯二甲酸二己酯(包括直链和支链)	68515-50-4	0.005
XI	153	Cadmium chloride 氯化镉 <sup>△</sup>	10108-64-2	0.005
XI	154	Sodium perborate 过硼酸钠(四水) <sup>△</sup> ; perboric acid, sodium salt 过硼酸钠(一水) <sup>△</sup>	/	0.005
XI	155	Sodium peroxometaborate 过硼酸钠 <sup>△</sup>	7632-04-4	0.005
XII	156	Cadmium fluoride 氟化镉 <sup>△</sup>	7790-79-6	0.005

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XII	157	Cadmium sulphate 硫酸镉 <sup>△</sup>	10124-36-4; 31119-53-6	0.005
XII	158	2-benzotriazol-2-yl-4,6-di-tert-butylphenol 2-(2'-羟基-3', 5'-二叔丁基苯基)-苯并三唑(UV-320)	3846-71-7	0.005
XII	159	2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol 2-(2H-苯并三唑-2-基)-4,6-二叔戊基苯酚(UV-328)	25973-55-1	0.005
XII	160	2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa -3,5-dithia-4-Stannatetradecanoate 二正辛基-双(巯乙酸 2-乙基己酯)锡(DOTE)	15571-58-1	0.005
XII	161	Reaction mass of 2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3, 5-dithia-4-stannatetradecanoate and 2-ethylhexyl 10-ethyl-4 -[[2-[(2-ethylhexyl)oxy]-2-oxoethyl]thio]-4-octyl-7-oxo-8-oxa-3, 5-dithia-4-stannatetradecanoate (reaction mass of DOTE and MOTE) 二正辛基-双(巯乙酸 2-乙基己酯)锡(DOTE)和三(2-乙基己基巯基 乙酸)辛锡(MOTE)的反应物料	/	0.005
XIII	162	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 邻苯二甲酸二(C6-C10)烷基酯: (癸基, 己基, 辛基) 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%	68515-51-5 68648-93-1	0.005
XIII	163	5-sec-butyl-2-(2,4-dimethylcyclohex-3-en-1-yl)-5-methyl-1, 3-dioxane[1],5-sec-butyl-2-(4,6-dimethylcyclohex-3-en-1-yl)-5- methyl-1,3-dioxane [2] [covering any of the individual stereoisomers of [1] and [2] or any combination thereof] 卡拉花醛	/	0.005
XIV	164	1,3-propanesultone 1,3-丙烷磺内酯	1120-71-4	0.005
XIV	165	2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol 2,4-二叔丁基-6-(5-氯-2H-苯并三唑-2-基)苯酚(UV-327)	3864-99-1	0.005
XIV	166	2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol 2-(2'-羟基-3'-异丁基-5'-叔丁基苯基)苯并三唑(UV-350)	36437-37-3	0.005
XIV	167	Nitrobenzene 硝基苯	98-95-3	0.005
XIV	168	Perfluorononan-1-oic acid (2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,9-heptafluorononanoic acid and its sodium and ammonium salts 全氟壬酸及盐(2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,9-十七氟壬酸和其 钠和铵盐)	375-95-1 21049-39-8 4149-60-4	0.005
XV	169	Benzo[d,e,f]chrysene 苯并[d,e,f]屈	50-32-8	0.005
XVI	170	4,4'-isopropylidenediphenol (bisphenol A) 双酚 A	80-05-7	0.005
XVI	171	Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts	335-76-2	0.005

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		全氟癸酸 (PFDA) 及其钠盐和铵盐		
X VI	172	4-heptylphenol, branched and linear 支链与支链的 4-庚基酚(4-HPbl)	/	0.005
X VI	173	4-tert-pentylphenol (PTAP) 4-叔戊基苯酚	80-46-6	0.005
X VII	174	Perfluorohexane-1-sulphonic acid and its salts 全氟辛烷-1-磺酸及其盐类	206-587-1 355-46-4	0.005
X VIII	175	Dechlorane plus (including any of its individual anti- and syn-isomers or any combination thereof) 德克隆[包括所有反式和顺式异构体及其组合]	13560-89-9 135821-74-8	0.005
X VIII	176	Benz[a]anthracene 苯并[a]蒽	56-55-3	0.005
X VIII	177	Cadmium nitrate 硝酸镉 <sup>△</sup>	10325-94-7	0.005
X VIII	178	Cadmium carbonate 碳酸镉 <sup>△</sup>	513-78-0	0.005
X VIII	179	Cadmium hydroxide 氢氧化镉 <sup>△</sup>	21041-95-2	0.005
X VIII	180	Chrysene 屈	218-01-9	0.005
X VIII	181	Reaction products of 1,3,4-thiadiazolidine-2,5- dithione, formaldehyde and 4-heptylphenol, branched and linear (RP-HP) [with≥0.1% w/w 4-heptylphenol, branched and linear] 1,3,4-噻二唑烷-2,5-二硫酮, 甲醛和 4-庚基苯酚的支链和直链 (RP-HP)的反应产物[4-庚基苯酚, 支链和直链含量≥0.1%w / w]	/	0.005
X IX	182	Dicyclohexyl phthalate (DCHP) 邻苯二甲酸二环己酯 (DCHP)	84-61-7	0.005
X IX	183	1,2,4-Benzenetricarboxylic acid anhydride 偏苯三酸酐	552-30-7	0.005
X IX	184	Octamethylcyclotetrasiloxane (D4) 八甲基环四硅氧烷 (D4)	556-67-2	0.005
X IX	185	Decamethylcyclopentasiloxane (D5) 十甲基环戊硅氧烷 (D5)	541-02-6	0.005
X IX	186	Dodecamethylcyclohexasiloxane (D6) 十二甲基环己硅氧烷 (D6)	540-97-6	0.005
X IX	187	Lead 铅	7439-92-1	0.005
X IX	188	disodium octaborate 四水八硼酸二钠 <sup>△</sup>	12008-41-2	0.005
X IX	189	Benzo[g,h,i]perylene 苯并[g,h,i]芘(BPE)	191-24-2	0.005
X IX	190	Terphenyl hydrogenated 氢化三联苯	61788-32-7	0.005
X IX	191	Ethylenediamine 乙(撑)二胺 (EDA)	107-15-3	0.005

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X X	192	2,2-bis(4'-hydroxyphenyl)-4-methylpentane 2,2-双(4,-羟基苯基)-4-甲基戊烷	6807-17-6	0.005
X X	193	Benzo[k]fluoranthene 苯并[k]荧蒽	207-08-9	0.005
X X	194	Fluoranthene 荧蒽	206-44-0	0.005
X X	195	Phenanthrene 菲	85-01-8	0.005
X X	196	Pyrene 芘	129-00-0	0.005
X X	197	1,7,7-trimethyl-3-(phenylmethylene) bicyclo [2.2.1]heptan-2-one 1,7,7-三甲基-3-(苯亚甲基)双环[2.2.1]庚烷-2-酮	15087-24-8	0.005
X X I	198	2-methoxyethyl acetate 2-甲氧基乙酸酯	110-49-6	0.005
X X I	199	Tris (4-nonylphenyl, branched and linear) phosphite (TNNP) with $\geq 0.1\%$ w/w of 4-nonylphenol, branched and linear (4-NP) 三-(4-壬基苯酚, 分支和线性)亚磷酸(TNPP), $\geq 0.1\%$ w/w 的(4-壬基苯酚, 分支和线性(4-NP)	/	0.005
X X I	200	2,3,3,3-tetrafluoro-2-(heptafluoropropoxy) propionic acid, its salts and its acyl halides (covering any of their individual isomers and combination thereof) 2,3,3,3-四氟-2-(七氟丙氧基)丙酸、其盐类及其酰基卤化物(涵 盖它们各自的异构体及其组合)	/	0.005
X X I	201	4-tert-Butylphenol 4-叔丁基苯酚	98-54-4	0.005
X X II	202	2-benzyl-2-dimethylamino-4'-morpholinobutyrophenone 2-苄基-2 二甲基氨基-1-(4-吗啉苯基)丁酮	119313-12-1	0.005
X X II	203	2-methyl-1-(4-methylthiophenyl)-2- morpholinopropan-1-one 光引发剂 907	71868-10-5	0.005
X X II	204	Diisohexyl phthalate 1,2-苯二羧酸二异己酯	71850-09-4	0.005
X X II	205	Perfluorobutane sulfonic acid (PFBS) and its salts 全氟丁基磺酸盐	/	0.005
X X III	206	1-vinylimidazole 1-乙烯基咪唑	1072-63-5	0.005
X X III	207	2-methylimidazole 2-甲基咪唑	693-98-1	0.005
X X III	208	Butyl 4-hydroxybenzoate 对羟基苯甲酸丁酯	94-26-8	0.005

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X X III	209	Dibutylbis(pentane-2,4-dionato-O,O')tin 双(乙酰丙酮酸)二丁基锡	22673-19-4	0.005
X X IV	210	2-(2-methoxyethoxy)ethyl ether 双(2-(2-甲氧基乙氧)乙基醚(四乙二醇二甲醚))	143-24-8	0.005
X X IV	211	Diocetyl tin dilaurate, stannane, dioctyl-, bis(coco acyloxy) derivs., and any other stannane, dioctyl-, bis(fatty acyloxy) derivs. wherein C12 is the predominant carbon number of the fatty acyloxy moiety 二月桂酸二辛基锡, 锡烷, 二辛基-, 双(椰油酰氧基)衍生物, 以及任何其他锡烷, 二辛基-, 双(脂肪酰氧基)衍生物。其中 C12 为脂肪酰氧基部分的主要碳原子数	/	0.005
X X V	212	1,4-dioxane 1,4-二氧六环	123-91-1	0.005
X X V	213	2,2-Bis(bromomethyl)propane-1,3-diol (BMP), Trisbromoneopentyl alcohol (TBNPA), 2,3-Dibromo-1-propanol (2,3-DBPA) 二溴新戊二醇 (BMP) 三溴新戊醇 (TBNPA) 2,3-二溴-1-丙醇 (2,3-DBPA)	3296-90-0 36483-57-5/152 2-92-5 96-13-9	0.005
X X V	214	2-(4-tert-butylbenzyl)propionaldehyde and its individual stereoisomers 2-(4-叔丁基苄基)丙醛及其立体异构体	/	0.005
X X V	215	2,2-Bis(4-hydroxyphenyl)butane 2,2-二(4-羟基苯基)丁烷	77-40-7	0.005
X X V	216	Glutaraldehyde 戊二醛	111-30-8	0.005
X X V	217	Medium-chain chlorinated paraffins (MCCP) 中链氯化石蜡 (MCCP)	85535-85-9	0.005
X X V	218	Orthoboric Acid Sodium Salt 硼酸钠 <sup>△</sup>	13840-56-7	0.005
X X V	219	Phenol, alkylation products (mainly in para position) with C12-rich branched or linear alkyl chains from oligomerisation, covering any individual isomers and/ or combinations thereof (PDDP) 碳链 (C12 为主, 直链或支链) 主要在对位的烷基酚物质及其任 何单个异构体或组合 (PDDP)	/	0.005

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Batch 批次	No. 序号	Substance Name 物质名称	CAS No. CAS 编号	RL (%)
XXVI	220	(±)-1,7,7-trimethyl-3-[(4-methylphenyl)methylene]bicyclo[2.2.1]heptan-2-one covering any of the Individual Isomers and/or combinations thereof (4-MBC) (±)-1,7,7-三甲基-3-[(4-甲基苯基)亚甲基]双环[2.2.1]庚-2-酮, 包括任何单独的异构体和/或其组合(4-MBC)	/	0.005
XXVI	221	2,2'-Methylenebis(6-tert-butyl-4-methylphenol) 2,2'-亚甲基双-(4-甲基-6-叔丁基苯酚)	119-47-1	0.005
XXVI	222	S-(Tricyclo(5.2.1.0'2,6)deca-3-en-8(or 9)-yl O-(isopropyl or isobutyl or 2-ethylhexyl) O-(isopropyl or isobutyl or 2-ethylhexyl) phosphorodithioate S-(三环[5.2.1.0'2,6]癸-3-烯-8(或9)-基)O-(异丙基或异丁基或2-乙基己基)O-(异丙基或异丁基或2-乙基己基)二硫代磷酸酯	255881-94-8	0.005
XXVI	223	Tris(2-methoxyethoxy)vinylsilane 乙烯基三(2-甲氧基乙氧基)硅烷	1067-53-4	0.005
XXVII	224	N-(hydroxymethyl)acrylamide N-羟甲基丙烯酰胺	924-42-5	0.005
XXVIII	225	1,1'-[ethane-1,2-diylbis(oxy)]bis[2,4,6-tribromobenzene] 1, 2-双(2, 4, 6-三溴苯氧基)乙烷	37853-59-1	0.005
XXVIII	226	2,2',6,6'-tetrabromo-4,4'-isopropylidenediphenol 四溴双酚 A	79-94-7	0.005
XXVIII	227	4,4'-sulphonyldiphenol 4,4'-磺酰二苯酚(双酚S)	80-09-1	0.005
XXVIII	228	Barium diboron tetraoxide 偏硼酸钡	13701-59-2	0.005
XXVIII	229	Bis(2-ethylhexyl covering tetrabromophthalate any of the individual isomers and/or combinations thereof 四溴邻苯二甲酸双(2-乙基己基)酯, 包括任何单个异构体和/或其组合	/	0.005
XXVIII	230	Isobutyl 4-hydroxybenzoate 4-羟基苯甲酸异丁酯	4247-02-3	0.005
XXVIII	231	Melamine 三聚氰胺	108-78-1	0.005
XXVIII	232	Perfluoroheptanoic acid and its salts 全氟庚酸及其盐	/	0.005
XXVIII	233	reaction mass of 2,2,3,3,5,5,6,6-octafluoro-4-(1,1,12,3,3,3-heptafluoropropan-2-yl)morpholine and 2,2,3,3,5,5,6,6-octafluoro-4-(heptafluoropropyl)morpholine 2,2,3,3,5,5,6,6-octafluoro-4-(heptafluoropropyl)morpholine 2, 2, 2,2,3,3,5,5,6,6-八氟-4-(七氟异丙基)吗啉和 2,2,3,3,5,5,6,6-八氟-4-(七氟内基)吗啉的反应物料	473-390-7	0.005
XXIX	234	Bis(4-chlorophenyl) sulphone 4,4'-二氯二苯砜	80-07-9	0.005
XXIX	235	Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide 二苯基(2,4,6-三甲基苯甲酰基)氧化膦	75980-60-8	0.005
XXX	236	2,4,6-tri-tert-butylphenol 2,4,6-三叔丁基苯酚(2,4,6-TTBP)	732-26-3	0.005
XXX	237	2-(2H-benzotriazol-2-yl)-4-(1,1,3,3-tetramethylbutyl)phenol 2-[2-羟基-5-(1,1,3,3-四甲丁基)苯基]苯并三唑(UV-329)	3147-75-9	0.005

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Batch 批次	No. 序号	Substance Name 物质名称	CAS No. CAS 编号	RL (%)
X X X	238	2-(dimethylamino)-2-[(4-methylphenyl)methyl]-1-[4-(morpholin-4-yl)phenyl]butan-1-one 2-(4-甲基苄基)-2-(二甲氨基)-1-(4-吗啉苄基)-1-丁酮	119344-86-4	0.005
X X X	239	Bumetrizole 2-(5-氯-2H-苯三唑-2-基)-6-(1,1-二甲甲基乙基)-4-甲基苯酚 (UV-326)	3896-11-5	0.005
X X X	240	Oligomerisation and alkylation reaction products of 2-phenylpropene and phenol 2-苄基丙烯与苯酚的低聚和烷基化反应产物	/	0.005
X X X I	241	Bis(a,a-dimethylbenzyl) peroxide 双(a,a-二甲苄基)过氧化物	80-43-3	0.005
X X X II	242	Triphenyl phosphate 磷酸三苯酯	115-86-6	0.005
X X X III	243	5-[(C10-C13)-alkyl-(branched, unsaturated)-2, 5-dioxopyrrolidin-1-yl]hexanoic acid 6-[(C10-C13)-烷基-(支链, 不饱和)-2,5-二氧化吡咯烷-1-基]己酸	2156592-54-8	0.005
X X X III	244	O,O,O-triphenyl phosphorothioate Triphenyl Phosphate O,O,O-三苯基硫代磷酸酯	597-82-0	0.005
X X X III	245	Octamethyltrisiloxane Triphenyl Phosphate 八甲基三硅氧烷	107-51-7	0.005
X X X III	246	Perfluamine Triphenyl Phosphate 全氟三丙胺	338-83-0	0.005
X X X III	247	Reaction mass of: triphenylthiophosphate and tertiary butylated phenyl derivatives Triphenyl Phosphate 三苯基硫代磷酸酯的叔丁基衍生物	192268-65-8	0.005
X X X IV	248	1,1,1,3,5,5,5-heptamethyl-3-[(trimethylsilyl)oxy]trisiloxane 甲基三(三甲基硅氧烷基)硅烷	17928-28-8	0.005
X X X IV	249	Decamethyltetrasiloxane 十甲基四硅氧烷	141-62-8	0.005
X X X IV	250	Tetra(sodium/potassium)7-[(E)-{2-acetamido-4-[(E)-(4-[[4-chloro-6-({2-[(4-fluoro-6-[[4-(vinylsulfonyl)phenyl]amino}-1,3,5-triazine-2-yl)amino]propyl]amino}-1,3,5-triazine-2-yl)amino]-5-sulfonato-1-naphthyl]diazanyl]-5-methoxyphenyl]diazanyl]-1,3,6-naphthalenetrisulfonate(Reactive Brown 51) 四(钠/钾)7-[(E)-{2-乙酰氨基-4-[(E)-(4-[[4-氯-6-[(2-[(4-氟-6-[(4-(乙烯基磺酰基)苯基]氨基)-1,3,5-三嗪-2-基]氨基]丙基]氨基)-1,3,5-三嗪-2-基]氨基]-5-磺基-1-萘基]偶氮]-5-甲氧基苯基]偶氮]-1,3,6-萘三磺酸盐(活性棕 51)	/	0.005

## Note 备注:

- "△" = Determination was based on elemental analysis. The concentration was calculated based on assumption of worst-case. "△" = 测定基于元素分析, 浓度计算是基于最坏情况的假设。
- Calculated concentration of boric compound are based on the water extractive boron by ICP-OES. 硼化合物

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的浓度是基于水萃取法、ICP-OES 分析的硼元素含量计算得出。

3. N.D. = Not Detected (< RL), RL = Report limit. N.D. = 未检出 (< RL), RL = 报告限值。
4. % = percentage by weight, 0.1% = 1000mg/kg = 1000ppm. % = 重量百分比, 0.1% = 1000 毫克/千克 = 1000ppm。
5. “/” = Not regulated. “/” = 无规定。

## Appendix I

### 附录 I

#### 1. According to the Article 33 of the Regulation (EC) No 1907/2006(REACH)-Duty to communicate information on substances in articles. 依据 REACH 法规 1907/2006/EC 第 33 条—物品中物质的信息传递义务

—Any supplier of an article containing a substance meeting the criteria in Article 57 and identified in accordance with Article 59(1) in a Result above 0.1% weight by weight(w/w) shall provide the recipient of the article with sufficient information, available to the supplier, to allow safe use of the article including, as a minimum, the name of that substance.

任何供应商供应的物品中含有某种物质符合第 57 条中规定并且依据第 59 (1) 条被确认为高度关注物质, 如果其浓度大于 0.1%, 此供应商应该提供给接受者关于能够安全使用该物品的足够信息, 至少包括物质的名称。

—On request by a consumer any supplier of an article containing a substance meeting the criteria in Article 57 and identified in accordance with Article 59(1) in a Result above 0.1% weight by weight(w/w) shall provide the consumer with sufficient information, available to the supplier, to allow safe use of the article including, as a minimum, the name of that substance. The relevant information shall be provided, free of charge, within 45 days of receipt of the request.

根据消费者要求, 任何供应商供应的物品中含有某种物质符合第 57 条中规定并且依据第 59 (1) 条被确认为高度关注物质, 如果其浓度大于 0.1%, 此供应商应该提供给接受者关于能够安全使用该物品的足够信息, 至少包括物质的名称。应该在要求被提出的 45 日内免费地提供这些信息给消费者

#### 2. According to the Article 33 of the Regulation (EC) No 1907/2006(REACH)-Notification of the Substance in Article. 依据 REACH 法规第 7 条—物品中物质的注册和通报

—If a substance meets the criteria in Article 57 and is identified in accordance with Article 59(1), EU and EEA producers or importers of articles have to notify ECHA when their article contains a substance on the Candidate List. This obligation applies if the substance is present above 0.1%(w/w) and its quantities in the produced/imported articles are above 1 tonne in total per year.

如果某种物质符合 57 条中规定的条件并且依据第 59 (1) 条被确定为高度关注物质, 如果同时满足 (1) 这种物质被包含在这些物品中的总量超过 1 吨每生产商或每进口商每年和 (2) 这种物质在这些产品中的浓度大于 0.1%, 任何物品生产商或进口商都应该向欧洲化学品管理局通报。

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**3. According to the other articles of the Regulation(EC) No 1907/2006(REACH),The relevant obligation for the substance on its own or in preparation.** 依据 REACH 法规 1907/2006/EC 相关条款—物质和配制品的相应义务

**—OBLIGATIONS 义务: SUBSTANCES 物质**

From 28 October 2008, EU&EEA suppliers of a substance have to provide a safety data sheet to their customers when the substance is on the Candidate List.

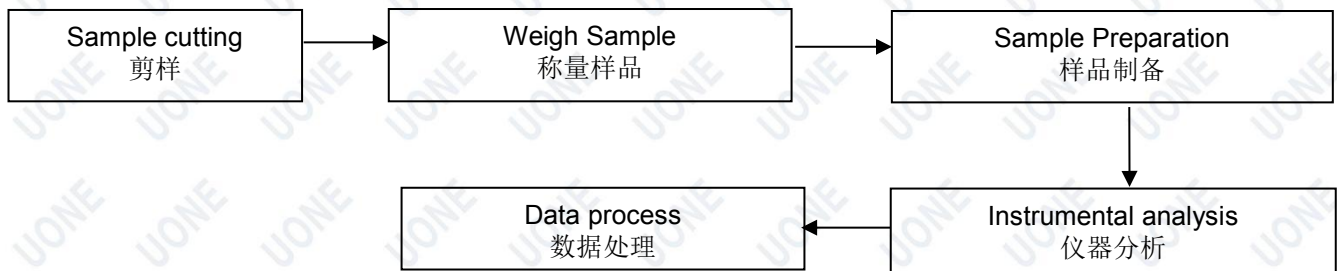
从 2008/10/28 起, 当物质在高度关注物质候选清单时, 欧盟任何物质的供应商都应提供化学品安全技术说明给他们的客户。

**—OBLIGATIONS 义务: PREPARATIONS 配制品**

From 28 October 2008, EU&EEA suppliers of a preparation not classified as dangerous according to Directive 1999/45/EC have to provide the recipients, at their request, with a safety data sheet if the preparation contains at least one substance on the Candidate List and its individual Result is at least 0.1%(w/w) for non gaseous preparations and at least 0.2% by volume for gaseous preparations.

从 2008/10/28 起, 根据 1999/45/EC 分类不属于危险品的配制品的欧盟供应商, 当至少有一种物质在高度关注物质候选清单且浓度大于 0.1%的非气态和浓度大于 0.2% (体积比) 气态的配制品时, 需要提供购买者、客户需求和化学品安全技术说明。

Test Process Flow 测试流程图



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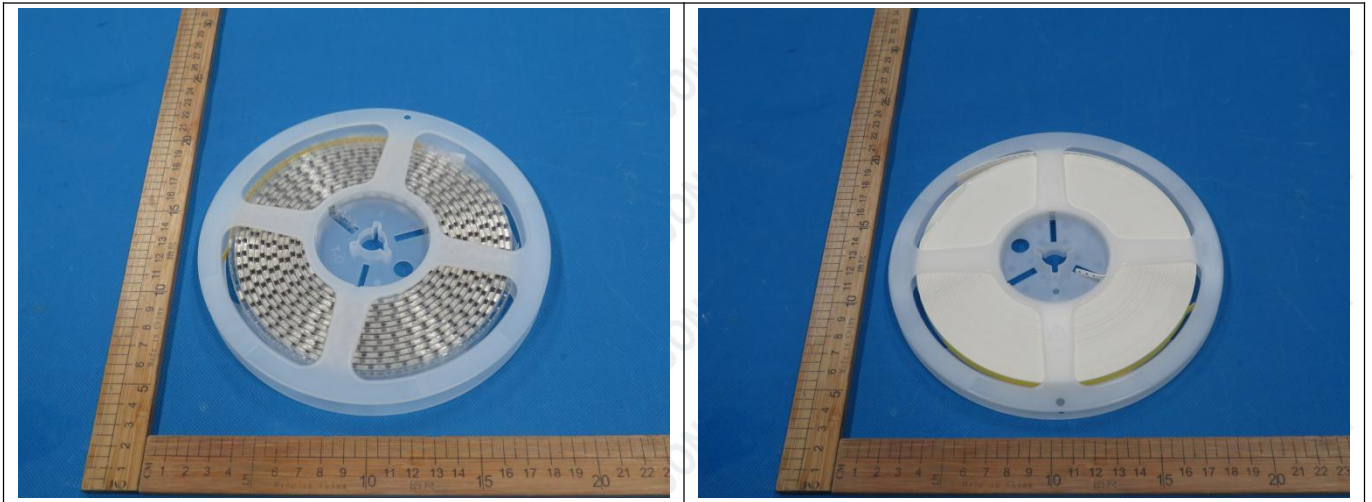
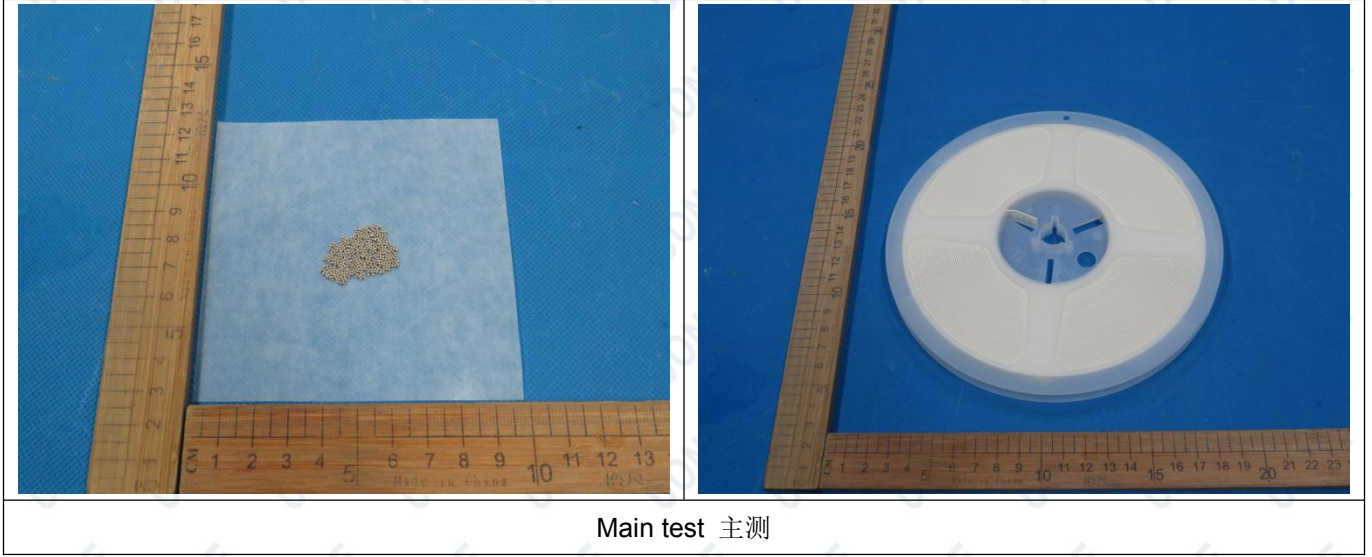
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Photo(s) of Sample 样品图片:



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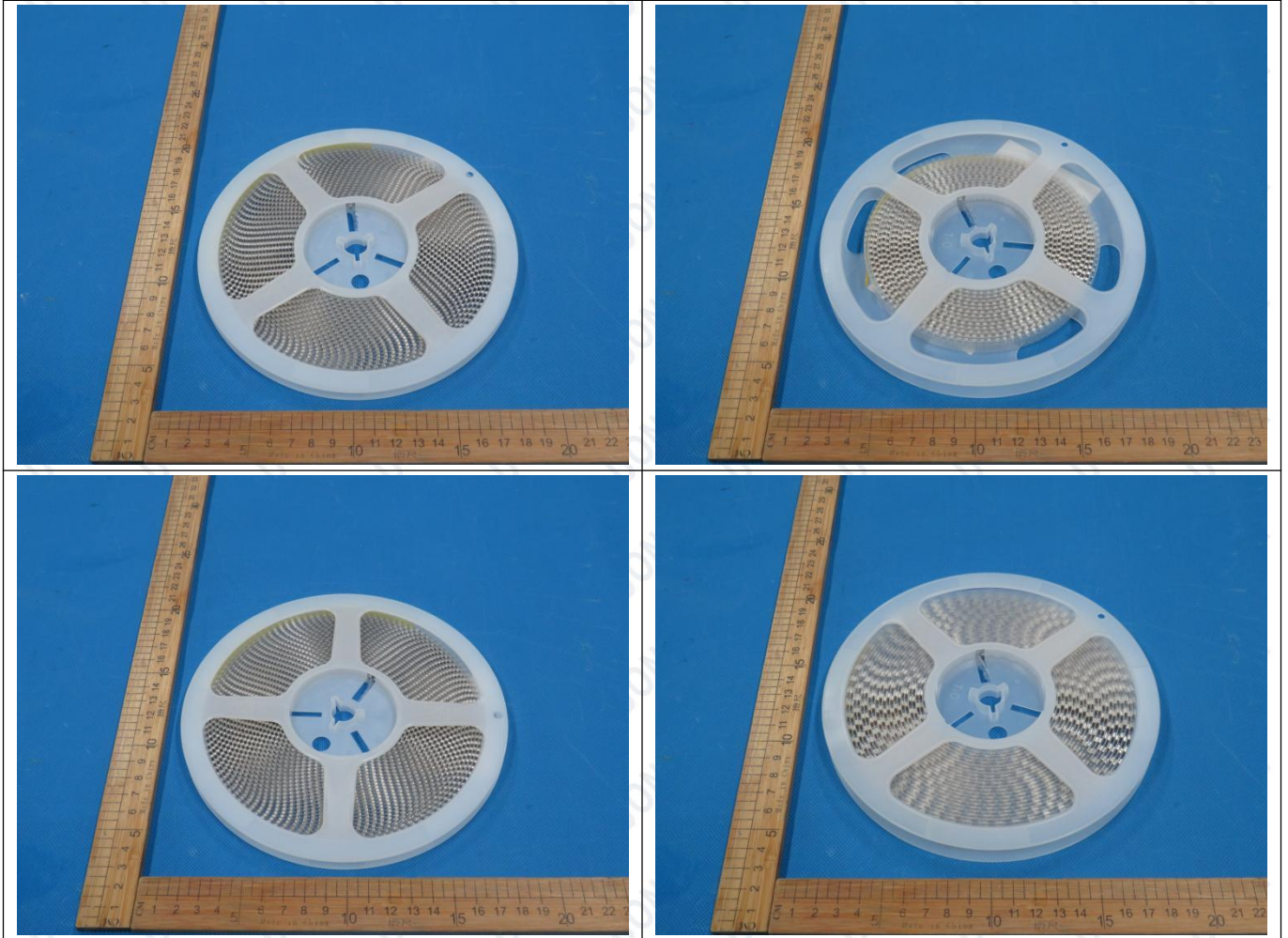
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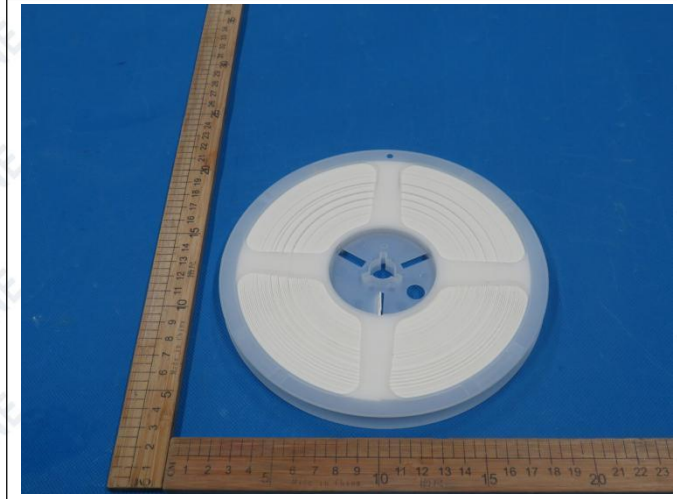
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