

编号: CANEC2300543202

日期: 2023年01月20日 第1页,共16页

客户名称: 重庆平伟实业股份有限公司 重庆市梁平区工业园区 客户地址:

样品名称:	半导体器件
型号:	TO-263
客户参考信息:	见备注
以上样品及信息由客户提供。	

SGS工作编号:	10024141 - CQ
样品接收日期:	2023年01月10日
检测周期:	2023年01月10日 - 2023年01月19日
检测要求:	根据客户要求检测
检测方法:	请参见下一页
检测结果:	请参见下一页

检测结果概要:

检测要求	结论
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富马酸二甲酯(DMF)	见检测结果
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欧盟法规(EC) No 1907/2006 REACH 附录XVII及其修正法案(EU) No 276/2010第20条 有机锡	符合
AfPS GS 2019:01 PAK-多环芳香烃	见检测结果
全氟和多氟烷基化合物(PFASs)	见检测结果



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Jany Zhong钟臻 批准签署人



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检测结果:

检测样品描述:

样品编号	SGS样品ID	描述
SN1	CAN23-005432.001	带灰色印字的黑色"本体"(混合)

备注:

(1) 1 mg/kg = 0.0001%
(2) MDL = 方法检测限
(3) ND = 未检出 (< MDL)
(4) "-" = 未规定

<u>元素分析</u>

检测方法: SGS内部方法(GZTC CHEM-TOP-004-01,参考EPA 3052: 1996),采用ICP-OES进行分析。

检测项目	单位	<u>MDL</u>	<u>001</u>
锑 (Sb)	mg/kg	10	ND
铍(Be)	mg/kg	5	ND
三氧化二锑(Sb₂O₃)	mg/kg	12	ND

备注:

(1) 三氧化二锑(Sb₂O₃): 由锑含量换算得之。

<u>石棉</u>

检测方法: 参考NIOSH 9000:2015 / NIOSH 9002:1994, 采用XRD / PLM进行分析。

检测项目	CAS NO.	<u>单位</u>	<u>MDL</u>	<u>001</u>
温石棉	12001-29-5/13220 7-32-0	% (m/m)	0.1	阴性
铁石棉	12172-73-5	% (m/m)	0.1	阴性
青石棉	12001-28-4	% (m/m)	0.1	阴性
直闪石	77536-67-5	% (m/m)	0.1	阴性
透闪石	77536-68-6	% (m/m)	0.1	阴性
阳起石	77536-66-4	% (m/m)	0.1	阴性



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备注:

(1)阴性表示未检出石棉,阳性表示检出石棉。

<u> 四溴双酚-A</u>

检测方法: SGS内部方法(GZTC CHEM-TOP-065,参考EPA 3540C:1996 & EPA 8270E:2017),采用LC-MS/MS进行分析。

检测项目	<u>单位</u>	<u>MDL</u>	<u>001</u>
四溴双酚-A	mg/kg	5	ND

<u>红磷</u>

检测方法:	SGS内部方法(SGS-CCL-TOP-215-01),采用PY-GC/MS / ICP-OES / GC-MS 进行分析。

检测项目	<u>单位</u>	MDL	<u>001</u>
红磷	mg/kg	500	ND

<u>富马酸二甲酯(DMF)</u>

检测方法: SGS内部方法(GZTC CHEM-TOP-095),用GC-MS分析。

检测项目	<u>单位</u>	MDL	<u>001</u>
富马酸二甲酯(DMF)	mg/kg	0.1	ND

<u>壬基酚聚氧乙烯醚(NPEO)</u>

检测方法: SGS内部方法(GZTC CHEM-TOP-063-01,参考EPA 3550C:2007),采用LC-MS进行分析。

检测项目	<u>单位</u>	MDL	<u>001</u>
壬基酚聚氧乙烯醚(NPEO)	mg/kg	30	ND

欧盟法规(EC) No 1907/2006 REACH附录XVII及其修正法案(EU) No 276/2010第20条- 有机锡

检测方法: SGS内部方法(GZTC CHEM-TOP-031,参考ISO 17353:2004),采用GC-MS进行分析。



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检测方法:

SGS内部方法(GZTC CHEM-TOP-031,参考ISO 17353:2004),采用GC-MS进行分析。

检测项目	<u>限值</u>	单位	<u>MDL</u>	<u>001</u>
按TBT (三丁基锡) 换算回锡的含量	-	%(w/w)	0.01	ND
按TPhT (三苯基锡) 换算回锡的含量	-	%(w/w)	0.01	ND
按TCyT (三环己基锡) 换算回锡的含量	-	%(w/w)	0.01	ND
按TOT (三辛基锡) 换算回锡的含量	-	%(w/w)	0.01	ND
按TPT(三丙基锡)换算回锡的含量	-	%(w/w)	0.01	ND
按TMT (三甲基锡) 换算回锡的含量	-	%(w/w)	0.01	ND
三代有机锡化合物换算锡含量	0.1	%(w/w)	-	ND
按DBT (二丁基锡)换算回锡的含量	0.1	%(w/w)	0.01	ND
按DOT (二辛基锡) 换算回锡的含量	0.1	%(w/w)	0.01	ND
评论				符合

AfPS GS 2019:01 PAK-多环芳香烃

检测方法: 参考AfPS GS 2019:01 PAK 检测,采用 GC-MS进行分析。

检测项目	<u>CAS NO.</u>	<u>单位</u>	MDL	<u>001</u>
萘 (NAP)	91-20-3	mg/kg	0.1	ND
菲 (PHE)	85-01-8	mg/kg	0.1	ND
蒽 (ANT)	120-12-7	mg/kg	0.1	ND
荧蒽 (FLT)	206-44-0	mg/kg	0.1	ND
芘 (PYR)	129-00-0	mg/kg	0.1	ND
苯并(a)蒽 (BaA)	56-55-3	mg/kg	0.1	ND
䓛 (CHR)	218-01-9	mg/kg	0.1	ND
苯并(b)荧蒽 (BbF)	205-99-2	mg/kg	0.1	ND
苯并(j)荧蒽 (BjF)	205-82-3	mg/kg	0.1	ND
苯并 (k)荧蒽 (BkF)	207-08-9	mg/kg	0.1	ND
苯并(a)芘 (BaP)	50-32-8	mg/kg	0.1	ND
苯并(e)芘 (BeP)	192-97-2	mg/kg	0.1	ND
茚苯(1,2,3-c,d)芘 (IPY)	193-39-5	mg/kg	0.1	ND
二苯并(a,h)蒽(DBA)	53-70-3	mg/kg	0.1	ND
苯并(g,h,i)苝(二萘嵌苯) (BPE)	191-24-2	mg/kg	0.1	ND
4项多环芳香烃总和(菲 (PHE),芘 (PYR),蒽	-	mg/kg	-	ND
(ANT),荧蒽 (FLT))				
15项多环芳香烃总和	-	mg/kg	-	ND



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AfPS(德国产品安全委员会):多环芳香烃的要求

	1类	2	类	3	类
参数 (mg/kg)	设计意图为放入口 中的材料,或与皮 肤长期接触(超过 30秒)的材料用于	不属于第1类,设计意图或可预 见 ^d 与皮肤长期接触(超过30 秒)或短期重复接触°的材料		不属于第1和2类,设计意图或 可预见与皮肤短期接触 (不超过 30 秒)材料	
	-2009/48/EC 定 义的玩具,或	a.供儿童	b.其他产品	a.供儿童	b.其他产品
	-供 3 岁以下儿童 ^{a,b} 使用。	使用的产品		, (<u>)</u> ,	使用的产品
苯并 (a) 芘 (BaP)	< 0.2	< 0.2	< 0.5	< 0.5	< 1
苯并 (e) 芘 (BeP)	< 0.2	< 0.2	< 0.5	< 0.5	< 1
苯并 (a) 蒽 (BaA)	< 0.2	< 0.2	< 0.5	< 0.5	< 1
苯并(b)荧蒽 (BbF)	< 0.2	< 0.2	< 0.5	< 0.5	< 1
苯并(j)荧葱 (BjF)	< 0.2	< 0.2	< 0.5	< 0.5	< 1
苯并 (k)荧葱 (BkF)	< 0.2	< 0.2	< 0.5	< 0.5	< 1
䓛 (CHR)	< 0.2	< 0.2	< 0.5	< 0.5	< 1
二苯并(a,h)蒽 (DBA)	< 0.2	< 0.2	< 0.5	< 0.5	< 1
苯并(g,h,i)苝(二萘嵌苯) (BPE)	< 0.2	< 0.2	< 0.5	< 0.5	< 1
茚苯(1,2,3-c,d)芘 (IPY)	< 0.2	< 0.2	< 0.5	< 0.5	< 1
菲 (PHE),芘 (PYR),蒽 (ANT),荧蒽 (FLT)	<1(总和)	<5(总和)	< 10 (总和)	< 20 (总和)	< 50 (总和)
萘 (NAP)	< 1	< 2 < 10		10	
15 PAH之和	<1	< 5	< 10	< 20	< 50

注释:

a儿童是指法定年龄未满 14 周岁的人。

^b供儿童使用包括儿童的主动接触或被动接触。

。"短期重复接触"的定义摘自 REACH 附录 XVII 第 50 条修正案 ((EC) No. 1272/2013)。

^d 根据德国产品安全法(**ProdSG**)(第一章第 2 条第 28 款)的定义,"可预见的使用"是指将产品投放市场的人无意 但可以合理预见的方式使用产品。

备注:

德国产品安全委员会(AfPS)于 2020 年 4 月 10 日发布了关于多环芳香烃(PAHs)的新文件(AfPS GS 2019:01 PAK),该文件将于 2020 年 7 月 1 日起用于 GS-MARK 认证。

全氟和多氟烷基化合物(PFASs)

检测方法: 参考CEN/TS 15968:2010,采用LC-MS或LC-MS/MS和GC-MS进行分析。

检测项目	CAS NO.	<u>单位</u>	<u>MDL</u>	<u>001</u>
全氟辛酸 (PFOA)及其盐*	-	mg/kg	0.010	ND



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检测项目	CAS NO.	<u>单位</u>	MDL	<u>001</u>
全氟辛烷磺酸 (PFOS)及其盐*	-	mg/kg	0.010	ND
全氟辛基磺酰胺(PFOSA)	754-91-6	mg/kg	0.010	ND
N-甲基全氟辛烷磺酰胺(N-MeFOSA)	31506-32-8	mg/kg	0.010	ND
N-乙基全氟辛烷磺酰胺(N-EtFOSA)	4151-50-2	mg/kg	0.010	ND
2-(N-甲基全氟辛基磺酰胺)乙醇(N-MeFOSE)	24448-09-7	mg/kg	0.010	ND
2-(N-乙基全氟辛基磺酰胺)乙醇(N-EtFOSE)	1691-99-2	mg/kg	0.010	ND
全氟辛烷磺酸 (PFOS)及其衍生物	-	mg/kg	-	ND
全氟丁酸(PFBA)	375-22-4	mg/kg	0.01	ND
全氟戊酸(PFPeA)	2706-90-3	mg/kg	0.01	ND
全氟己酸(PFHxA)	307-24-4	mg/kg	0.01	ND
7H-十二氟庚酸(HPFHpA)	1546-95-8	mg/kg	0.01	ND
全氟丁磺酸(PFBS)	375-73-5	mg/kg	0.01	ND
全氟丁基磺酸钾(PFBS-K)*	29420-49-3	mg/kg	0.01	ND
全氟庚酸(PFHpA)	375-85-9	mg/kg	0.01	ND
1H,1H,2H,2H-全氟辛磺酸(6:2 FTS)	27619-97-2	mg/kg	0.01	ND
全氟辛酸 (PFOA)	335-67-1	mg/kg	0.010	ND
全氟辛酸铵(APFO)*	3825-26-1	mg/kg	0.010	ND
全氟辛酸钠(PFOA-Na)*	335-95-5	mg/kg	0.01	ND
全氟辛酸钾(PFOA-K)*	2395-00-8	mg/kg	0.01	ND
全氟辛酸银(PFOA-Ag)*	335-93-3	mg/kg	0.01	ND
全氟辛氟(PFOA-F)*	335-66-0	mg/kg	0.01	ND
2H,2H-全氟癸酸(H2PFDA/8:2 FTCA)	27854-31-5	mg/kg	0.01	ND
全氟己基磺酸(PFHxS)	355-46-4	mg/kg	0.01	ND
全氟己基磺酸钠(PFHxS-Na)*	82382-12-5	mg/kg	0.01	ND
全氟己基磺酸钾(PFHxS-K)*	3871-99-6	mg/kg	0.01	ND
全氟壬酸(PFNA)	375-95-1	mg/kg	0.01	ND
全氟壬酸钠(PFNA-Na)*	21049-39-8	mg/kg	0.01	ND
全氟壬酸铵(APFN)*	4149-60-4	mg/kg	0.01	ND
全氟-3,7-二甲基辛酸(PF-3,7-DMOA)	172155-07-6	mg/kg	0.01	ND
全氟庚基磺酸(PFHpS)	375-92-8	mg/kg	0.01	ND
全氟庚基磺酸钠(PFHpS-Na)*	68555-66-8	mg/kg	0.01	ND
全氟癸酸(PFDA)	335-76-2	mg/kg	0.01	ND
全氟癸酸钠(PFDA-Na)*	3830-45-3	mg/kg	0.01	ND
全氟癸酸氨(APFDA)*	3108-42-7	mg/kg	0.01	ND
2H,2H,3H,3H-全氟癸酸(H4PFUnDA/ 8:3 FTCA)	34598-33-9	mg/kg	0.01	ND
全氟辛烷磺酸 (PFOS)	1763-23-1	mg/kg	0.010	ND



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检测报告

编号: CANEC2300543202

日期: 2023年01月20日 第8页.共16页

检测项目	CAS NO.	单位	MDL	001
<u>企業学校</u> 全氟辛基磺酰氟(POSF)*	<u>307-35-7</u>	mg/kg	0.010	<u>001</u> ND
全氟辛基磺酸钾(PFOS-K)*	2795-39-3	mg/kg	0.01	ND
全氟辛基磺酸铵(PFOS-NH₄)*	29081-56-9	mg/kg	0.01	ND
全氟辛基磺酸二癸二甲基铵(PFOS-DDA)*	251099-16-8	mg/kg	0.01	ND
全氟辛基磺酸二乙醇铵(PFOS-NH(OH)₂)*	70225-14-8	mg/kg	0.01	ND
全氟辛基磺酸锂(PFOS-Li)*	29457-72-5	mg/kg	0.01	ND
全氟辛基磺酸四乙基铵(PFOS-N(C₂H₅)₄)*	56773-42-3	mg/kg	0.01	ND
全氟十一烷酸(PFUnDA)	2058-94-8	mg/kg	0.01	ND
全氟十二烷酸(PFDoDA)	307-55-1	mg/kg	0.01	ND
全氟癸烷磺酸(PFDS)	335-77-3 /	mg/kg	0.01	ND
	126105-34-8			
全氟癸烷磺酸钠(PFDS-Na)*	2806-15-7	mg/kg	0.01	ND
全氟癸烷磺酸钾(PFDS-K)*	2806-16-8	mg/kg	0.01	ND
全氟癸基磺酸铵(PFDS-NH₄)*	67906-42-7	mg/kg	0.01	ND
全氟十三烷酸(PFTrDA)	72629-94-8	mg/kg	0.01	ND
全氟十四烷酸(PFTDA)	376-06-7	mg/kg	0.01	ND
1H,1H,2H,2H-全氟癸烷磺酸 (8:2 FTS)	39108-34-4	mg/kg	0.1	ND
全氟辛酸甲酯 (Me-PFOA)	376-27-2	mg/kg	0.1	ND
全氟辛酸乙酯 (Et-PFOA)	3108-24-5	mg/kg	0.1	ND
1H,1H,2H,2H-全氟-1-癸醇(8:2 FTOH)	678-39-7	mg/kg	0.1	ND
1H,1H,2H,2H-全氟癸基丙烯酸酯(8:2 FTA)	27905-45-9	mg/kg	0.1	ND
1H,1H,2H,2H-甲基丙烯酸全氟癸酯(8:2 FTMA)	1996-88-9	mg/kg	0.1	ND
全氟辛基碘烷 (PFOI)	507-63-1	mg/kg	0.1	ND
1H,1H,2H,2H-全氟-1-己醇(4:2 FTOH)	2043-47-2	mg/kg	0.1	ND
1H,1H,2H,2H-全氟-1-辛醇(6:2 FTOH)	647-42-7	mg/kg	0.1	ND
1H,1H,2H,2H-全氟辛基丙烯酸酯(6:2 FTA)	17527-29-6	mg/kg	0.1	ND
1H,1H,2H,2H-全氟十二烷基丙烯酸酯(10:2 FTA)	17741-60-5	mg/kg	0.1	ND
1H,1H,2H,2H-全氟-1-十二烷醇(10:2 FTOH)	865-86-1	mg/kg	0.1	ND
备注:				

(1)*检测结果是由选定的标记物的结果并基于最坏的情况计算得出。

备注:样品的测试是基于申请人要求混合测试,报告中的混合测试结果不代表其中个别单一材质的含量,该测试数据仅供参考。

除非另有说明,参照ILAC-G8:09/2019,使用简单接受(*w*=0)的二元判定规则进行符合性判定。除非另有说明,此报告结果仅对检测的样品负责。本报告未经本公司书面许可,不可部分复制。检测报告仅用于客户科研、教学、内部质量控制、产品研发等目的,仅供内部参考。



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备注:

Rectifier Bridge, Mosfet, Photovoltaic module, SOD-923, SOD-723, SC-89, SOT-416, SOT-23, SOT-323, SOT-252, SOT-223, A-405, DO-41(DO-204AL), DO-15(DO-204AC), DO-27 (DO-201AD), DO-27 (DO-201AE), HVM, HV, R-1, R-3, R-6, ITO-220AC/AB, TO-220AC/AB, WOB, RB-1, MBS, BR-15, RC-2, BRW, DB, DBS, GBJ, GBL, GBP, GBU, KBPC, KBP, KBU, KBL, MB, MM, RS, SMA(DO-214AC), SMB(DO-214AA), SMC(DO-214AB), SMF, PS-277, PS-277A, PS-277B, SOT-23, SOT-123, SOT-523, SOD-123, SOD-523, TO-92, TO-126, SOD-126, ABS, KBJ, LL-34, DO-35, DO-41, LL-41, SOD-123FL, TBF, TO-251, TO-252, TO-262, TO-263, ABM, MBF, SMBF, D3K, SMFL, TMBF, SOD-123HE, SOP-8, ABF, TO-220CB, TO-220MF, TO-247, DFN, SMFT, TO-220FS, TO-262CB, TO-263CB, SOD-123FT, TO-277, HGBU, HGBJ, RTMBF, TBM, DO-218AB, SOT223, TO-3P, TOLL-1, TOLL-2, SOT-563



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附件

PAHs 检测流程图





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检测流程图





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元素检测流程图





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红磷检测流程图





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Dimethyl Fumarate 检测流程图





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TBBP-A 检测流程图





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