

检测报告

编号: SHAEC25013262608

日期: 2025 年 06 月 10 日

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客户名称: 江苏捷捷微电子股份有限公司
客户地址: 江苏省启东市经济开发区钱塘江路 3000 号

样品名称: TO-220A
料号: 11201508000035
客户参考信息: 见附件
买家: 美的
以上样品及信息由客户提供。

SGS 工作编号: SHP25-018049
样品接收时间: 2025 年 06 月 04 日
检测周期: 2025 年 06 月 04 日 ~ 2025 年 06 月 10 日
检测要求: 根据客户要求检测。
检测方法: 见后续页。
检测结果: 见后续页。

检测要求	结论
多氯三联苯(PCTs)	符合
全氟和多氟烷基化合物 (PFAS) 含量的总氟筛选检测	符合
阻燃剂	符合
欧盟法规(EC) No 1907/2006 REACH 附录 XVII 及其修正法案(EU) 2016/1005 第 6 条-石棉	符合
欧盟法规(EC) No 1907/2006 Reach 附录 XVII 的修正指令(EC) No 276/2010 第 20 条 - 有机锡化合物	符合

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授权签名

盛雯舒

Sue Sheng 盛雯舒
批准签署人

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检测结果:

检测部件外观描述:

样品序号	样品编号	SGS 样品 ID	样品描述
SN1	A2	SHA25-0132626-0001.C002	黑色固体

备注:

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

多氯三联苯(PCTs)

检测方法: 参考 US EPA 3550C:2007, 采用 GC-MS 进行分析。

检测项目	限值	单位	MDL	A2
Aroclor 5432	禁用	mg/kg	5	ND
Aroclor 5442	禁用	mg/kg	5	ND
Aroclor 5460	禁用	mg/kg	5	ND
结论				符合

备注:

- (1) 最大允许限值来源于客户要求。

全氟和多氟烷基化合物 (PFAS) 含量的总氟筛选检测

检测方法: 参考 IEC 62321-3-2:2020 方法。

检测项目	限值	单位	MDL	A2
全氟和多氟烷基化合物(以氟计)	20	mg/kg	20	ND
结论				符合

备注:

- (1) 最大允许限值来源于客户。
- (2) 检测结果可能包含无机氟化物和/或有机氟化物。总氟的结果可能不是来自于 PFAS。建议检测单个 PFAS 以确定是否符合相应要求。

阻燃剂

检测方法: 参考内部方法, 采用 GC-MS 进行分析。

检测项目	CAS No.	限值	单位	MDL	A2
磷酸三(1,3-二氯-2-丙基)酯 (TDCPP/TDCP)	13674-87-8	1000	mg/kg	5	ND



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检测项目	CAS No.	限值	单位	MDL	A2
磷酸三(2-氯乙基)酯(TCEP)	115-96-8	1000	mg/kg	5	ND
磷酸三(1-氯-2-丙基)酯(TCPP)	13674-84-5	1000	mg/kg	10	ND
结论					符合

备注:

(1) 最大允许限值来源于客户要求。

欧盟法规(EC) No 1907/2006 REACH 附录 XVII 及其修正法案(EU) 2016/1005 第 6 条-石棉

检测方法: 参考 NIOSH 9000:2015 和 ISO 22262-1:2012, 采用 X 射线衍射仪(XRD)和偏光显微镜(PLM)进行定性分析。

检测项目	CAS No.	限值	单位	MDL	A2
阳起石	77536-66-4	禁用	%(m/m)	0.1	阴性
铁石棉	12172-73-5	禁用	%(m/m)	0.1	阴性
直闪石	77536-67-5	禁用	%(m/m)	0.1	阴性
温石棉	12001-29-5 /132207-32-0	禁用	%(m/m)	0.1	阴性
青石棉	12001-28-4	禁用	%(m/m)	0.1	阴性
透闪石	77536-68-6	禁用	%(m/m)	0.1	阴性
结论					符合

备注:

(1) 阴性=未检出石棉, 阳性=检出石棉

欧盟法规(EC) No 1907/2006 Reach 附录 XVII 的修正指令(EC) No 276/2010 第 20 条 - 有机锡化合物

检测方法: 参考 ISO 17353:2004, 采用 GC-MS 进行分析。

检测项目	限值	单位	MDL	A2
按 TBT (三丁基锡) 换算回锡的含量	-	%	0.01	ND
按 TPhT (三苯基锡) 换算回锡的含量	-	%	0.01	ND
按 TCyT (三环己基锡) 换算回锡的含量	-	%	0.01	ND
按 TOT (三辛基锡) 换算回锡的含量	-	%	0.01	ND
按 TPT (三丙基锡) 换算回锡的含量	-	%	0.01	ND
按 TMT (三甲基锡) 换算回锡的含量	-	%	0.01	ND
三代有机锡化合物换算锡含量	0.1	%	-	ND
按 DBT (二丁基锡) 换算回锡的含量	0.1	%	0.01	ND
按 DOT (二辛基锡) 换算回锡的含量	0.1	%	0.01	ND
结论				符合

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。

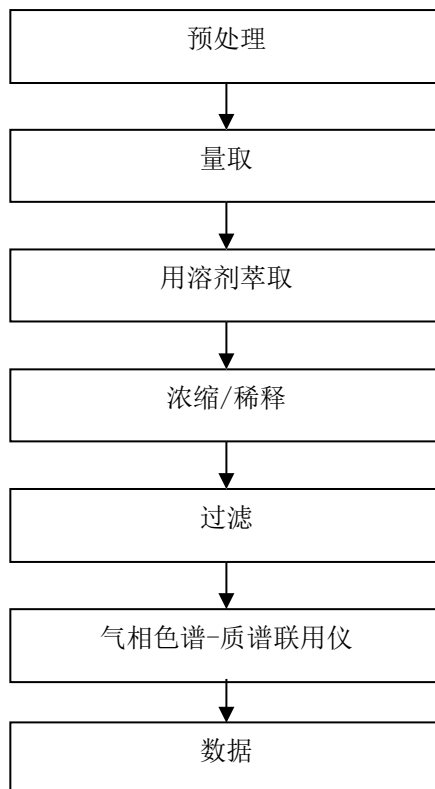


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PCT 检测流程图



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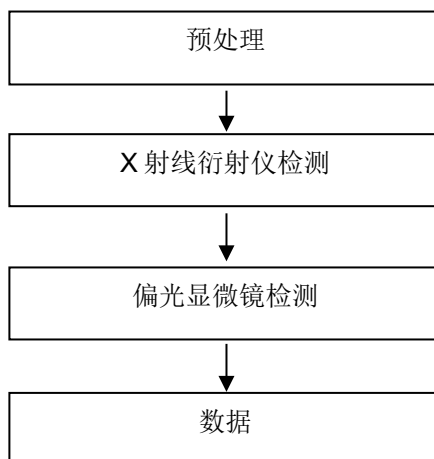
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Asbestos 检测流程图



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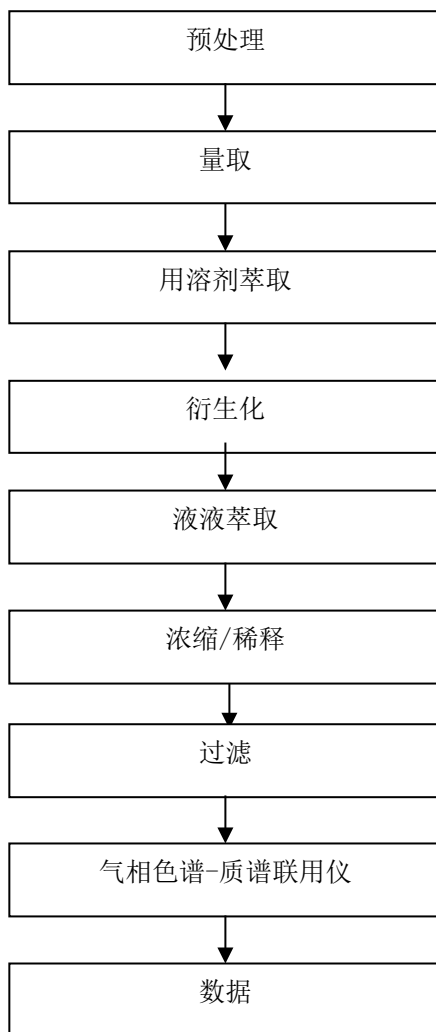
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有机锡检测流程图



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附件:

402、603、2510、62mm、ABS、DBS、DFN0603-2L、DFN1006-2L、DFN1006-3L、DFN10x15-5L、DFN10x15-5L-XX、DFN1610-2L、DFN1610-6L、DFN2010-5L、DFN2010-8L、DFN2020-2L、DFN2020-3L、DFN2020-6L、DFN2020-6L-XX、DFN2020-8L、DFN2510-10L、DFN2626-10L、DFN2x2-3L、DFN2x2-6L、DFN2x2-6L-D、DFN2x2-6L-XX、DFN3.0x3.0-8L、DFN3.0x3.0-8L-SD (Type、B)、DFN3.3x3.3-8L-XX、DFN3.0x3.0-8L-XX、DFN3.3x3.3-8L、DFN3.3x3.3-8L (Type、B)、DFN3.3x3.3-8L-XX、DFN3020-10L、DFN3030-8L、DFN3030-8L-XX、DFN3030-12L、DFN3333-2L、DFN3333-8L、DFN3810-9L、DFN3x3-8L-XX、DFN4120-10L、DFN5060-8L、DFN5060-8L-XX、DFN5515-18L、DFN5x6-8L、DFN5x6-8L(Dual)、DFN5x6-8L-XX、DFN8080-2L、DFN8080-4L、DFN8x8-2L、DFN8x8-4L、DFN8x8-4L-XX、DIP-4、DIP-5、DO-15、DO-218AB、DO-27、DO-41、DriveJM-34、DriveJM-62、DriveJM-DC、DriveJM-E1、DriveJM-E2、DriveJM-EC、DriveJM-ED、DriveJM-H1、DriveJM-H2、EasyPack1B、EconoDual、ESOP-8、F3、FBP-02C-A、GBJ、GBL、GBU、IGBT-34mm、ITO-247、ITO-247-XX、KBL、KBP、LSOP-4、MBF、MBS、P6、PDFN3.3x3.3-8L、PDFN3.3x3.3-8L-XX、PDFN3x3-8L、PDFN3x3-8L-XX、PDFN5x6-8L、PDFN5x6-8L-XX、PowerJE10x12、PowerJE5x6、PowerJE7x8、PowerJE8x8、PPTC、R6、SGBJ、SGD0201、SGD0402、SMA、SMAF、SMB、SMBF、SMC、SMC-3、SMD-3225、SMD-4032、SMD-5、SMT、SMT-4、SMTF、SMTJ、SMTO-218Tab、SOD-123、SOD-123FL、SOD-123FLT、SOD-323、SOD-323F、SOD-323FL、SOD-523、SOD-723、SOD-923、SOP-10、SOP-16、SOP-4、SOP-5、SOP-7、SOP-8、SOT-143、SOT-143-XX、SOT-223、SOT-223-XX、SOT-227、SOT-227-XX、SOT-23、SOT-23-XX、SOT-323、SOT-323-XX、SOT-353、SOT-353-XX、SOT-363、SOT-363-XX、SOT-523、SOT-523-XX、SOT-563、SOT-563-XX、SOT-723、SOT-723-XX、SOT-82、SOT-89、SOT-89R-XX、SOT-89-XX、SSOP-16、SSOP-4、STOLL7x8-5L、T2B、TO-126、TO-202、TO-202-XX、TO-220A、TO-220A-2D-XX、TO-220AB、TO-220A-XX、TO-220B、TO-220B-XX、TO-220C、TO-220C-XX、TO-220F、TO-220FA、TO-220FA-XX、TO-220FP、TO-220FP-XX、TO-220HF、TO-220H-XX、TO-220MF-3L、TO-220-XX、TO-247、TO-247-XX、TO-247i-XX、TO-247iL-XX、TO-247iPS-XX、TO-247J、TO-247J-XX、TO-247plus、TO-247S、TO-247S-XX、TO-251、TO-251L-XX、TO-251S、TO-251-XX、TO-252、TO-252-XX、TO-262、TO-262-XX、TO-263、TO-263-XX、TO-277B、TO-3P、TO-3P-3L、TO-3PF-3L、TO-3PN-3L、TO-92、TO-92CR、TO-92KR、TO-92KRF、TO-92UR、TO-92-XX、TOLL9.9x10.38-8L、TSSOP-8、TSSOP-8、WSOP-6



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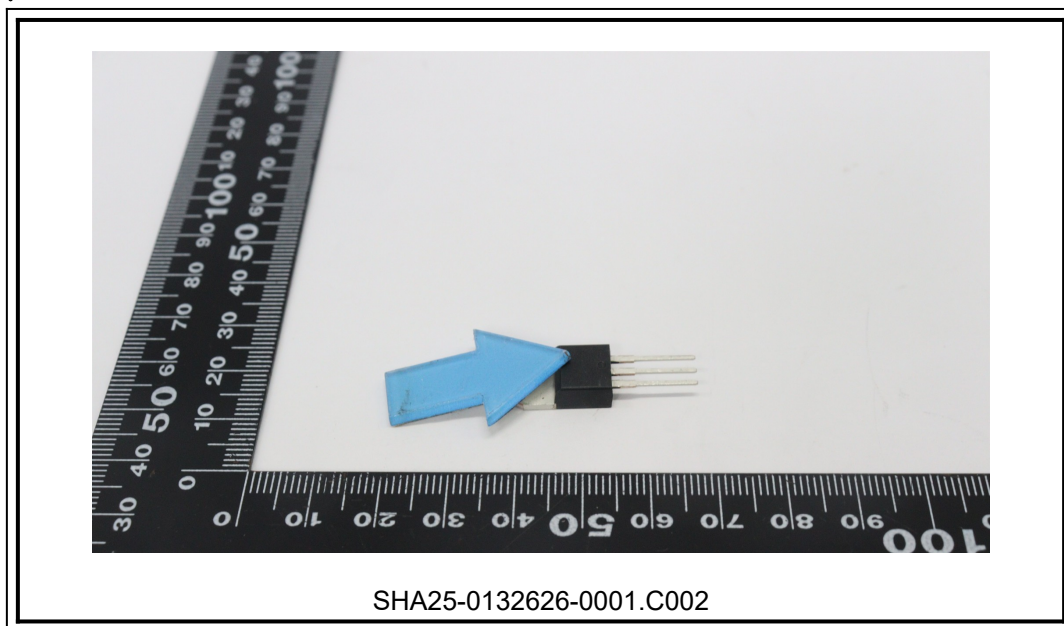
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