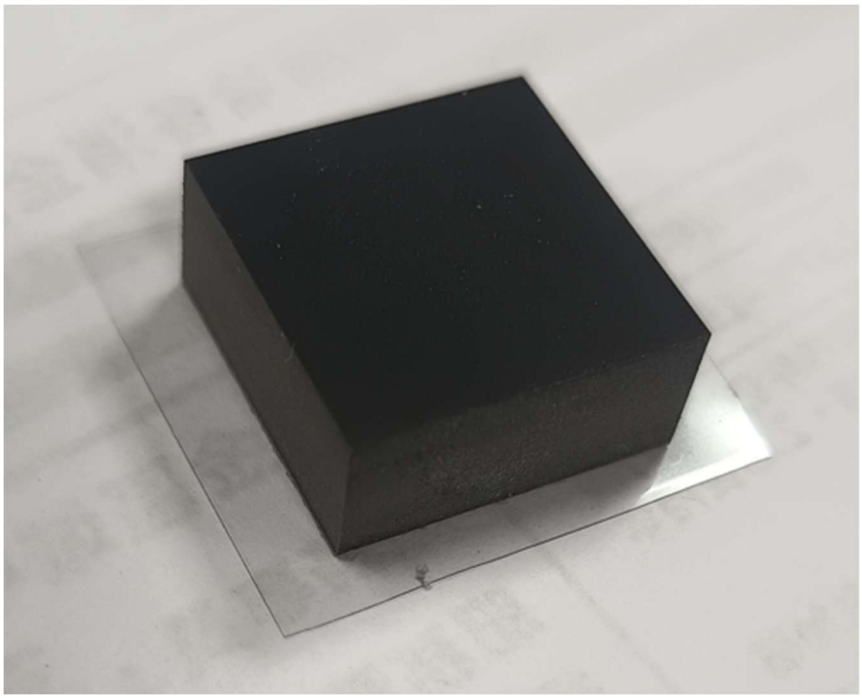


設計驗證
工程課
2025 -12- 31
發行

苏州柯裕电子材料有限公司

SuZhou Keyu Electronic Materials Co.,Ltd

承 认 书

客　户: 钰纬科技

(CUSTOMER)

品　名: QD2_RUBBER_BLACK

(Parts Name)

料　号: 3MD694RB010 (M3526)

(Stuff No.)

日　期: 2025年12月22日

(DATE)

設計驗證
工程課
2025 -12- 31
發行
鈺緯科技開發股份有限公司

工　程	品　保	审　核
关成凯	薛晓兰	曹小峰

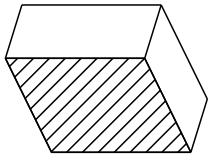
苏州柯裕电子材料有限公司
工程专用章

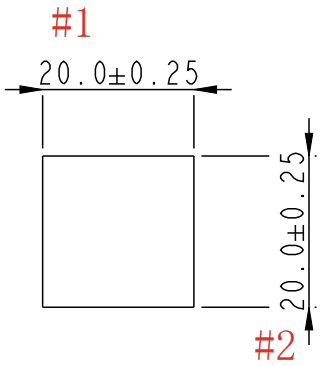
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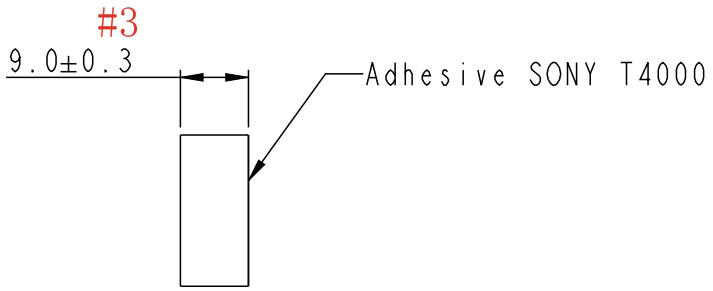
项目	文件名称	页次
1	承认书封面	1
2	目录	2
3	产品图面	3
4	FAI	4
5	SIP	5
6	物性表	
7	ROHS资料	
8	MSDS	

REV.	DATE	DESCRIPTION	BY	APVD
0	2025/12/9	FIRST RELEASE	Owen	









設計驗證
工程課
2025 -12- 31
發行

NOTE:
1.Material:
Silicone KE951+SONY T4000
2.RoHS Compliant.
3.DIVA QC Inspection Document NO.:
QWI-020 (Plastic)

RANGE OF DIMENSION	TOLERANCE CLASS DESIGNATION			
	fine	V medium	coarse	Rubber/Sponge/Mylar/Gasket
0.5 UP TO 3	±0.05	±0.1	±0.2	±0.2
OVER 3~6	±0.05	±0.1	±0.3	±0.2
OVER 6~30	±0.1	±0.2	±0.5	±0.25
OVER 30~120	±0.15	±0.3	±0.8	±0.3
OVER 120~400	±0.2	±0.5	±1.2	±0.5
OVER 400~1000	±0.3	±0.8	±2.0	±0.8
ANGLE ±1° (±1.75/100)				

THIRD ANGLE PROJECTION

DSGD by	Owen	2025-12-9	PART NAME:RUBBER (BLACK QD2)
CHK by	Laslie	2025-12-9	DIVA P/N:3MD694RB010
APVD by	Laslie	2025-12-9	Qisda NO.:4G.6G606.002

UNITS: mm | SCALE: 1/1 | SHEET: 1 OF 1 | MODEL NO.:QD2481A1-P

MATERIAL: Silicon Rubber | TREATMENT:

APVD NO.: (M3526)

3D FILE NAME: 4G_6G606_001_RUBBER

DIVA Laboratories ,Ltd.

苏州柯裕电子材料有限公司

FAI 检验报告

客户名称	钰纬科技	品名	QD2_RUBBER_BLACK
客户料号	3MD694RB010	日期	2025/12/22
材质	KE951+T4000		

序列	检验项目	规格标准		检测结果					检测方法	判定
				1	2	3	4	5		
1	材质	KE951+T4000		OK	OK	OK	OK	OK	SGS	OK
2	颜色	黑色		OK	OK	OK	OK	OK	目测	OK
3	尺寸(MM)	20	0.25	20.100	20.050	20.120	20.050	19.260	卡尺	OK
		20	0.25	19.990	19.970	19.950	19.900	19.920	卡尺	OK
		9	0.3	9	9.01	9.1	8.95	9.89	卡尺	OK
检测结果：			☑合格			☐不合格				
备注：										

检验员：李海燕

表单编号：KY-QR-Q-04-1.0

苏州柯裕电子材料有限公司

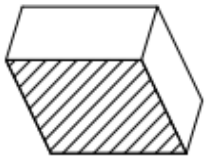
Suzhou Keyu Electronic Materials Co., Ltd.

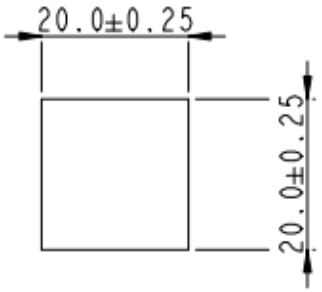
检验标准书(SIP)

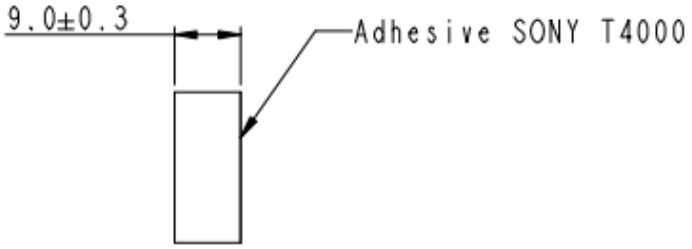
文件編號	SIP-QC-1164	产品名称	RUBBER			材　質	依图纸
		产品料号	3MD694RB010			版　本	B
制定日期	2021/11/25	修訂日期	2025/12/22	图面版本	A	page	1

抽样计划：MIL-STD-105E　LEVEL-Ⅱ加严.单次AQL（CR:0　MA：0.4　MI：0.65）









项目一：	成品检验				检验规格	抽样计划	允收水准	缺陷	使用仪器
	首件	制程	入库	出貨					
1	√	√	√	√	检验标准准书版本确认	检验频率	最新版本	MI	目視
2	√	√	√	√	材料确认	批/1次	依AQL0.4	MA	目視
2	√	√	√	√	尺寸确认（参照图纸）	5PCS/1h/次	依AQL0.4	MA	卡尺
3	√	√	√	√	外观确认	5PCS/1h/次	依AQL0.4	MA	目視
4									

1.材料上线前确认其材质，厚度参照SOP。

2.外观不可有未冲断、破损、胶偏、毛边等异常。

3.产品状态下泡棉屑、裁切屑严格按照要求管控

项目三：实配

确认产品包装是否完好，包装数量是否正确，产品标签是否和实物一致。

NO	品质履历	责任单位
1		
2		
3		
4		
5		

核准	曹小峰	審核	曹小峰	制定	薛晓兰

苏州柯裕电子材料有限公司

包装计划书

客户	钰纬科技	料号	3MD694RB010	包装方式	PE袋/纸箱	版本	A
		品名描述		QD2_RUBBER_BLACK			

一.产品包装:

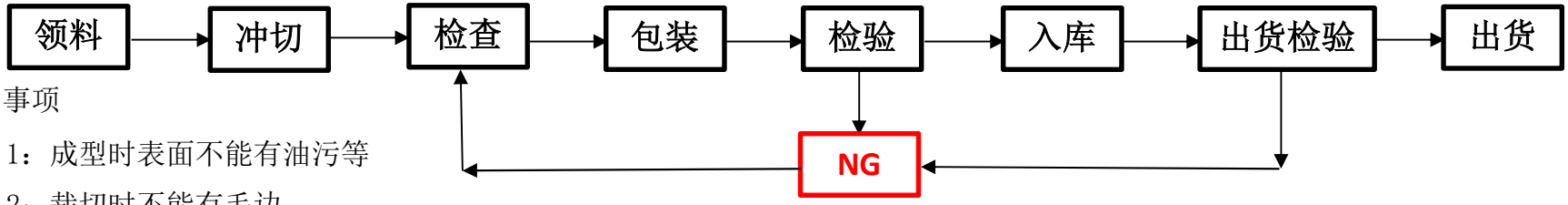
1.按产品大小进行整数包装;

2.如有单张产品个数不足，则以整包个数为准;

二.产品外箱标签要注明品名,料号,数量,日期;

三.箱内产品不可堆叠过高;

作业程序&注意事项



注意事项

1：成型时表面不能有油污等

2：裁切时不能有毛边

核准	审核	制定	制定日期	修订日期
曹小峰	曹小峰	关成凯	2025年12月22日	2025年12月22日

苏州柯裕电子材料有限公司

物性表

品 名：硅胶
規格：厚度：0.05-2.1**寬度：**300mm **長度：** m

材料構成：1、矽膠（KE951）2、PET（聚脂薄膜）

產品介紹：該產品選用日本信越公司KE系列的高檔矽膠與PET經高性能矽膠薄材壓延機複合而成。用於LCD顯示模組與外框架之間填充和緩衝的一款矽膠製品材料，具有良好的抗壓縮、填充效果.

主要用途：用於LCD顯示模組部位與塑膠外框結合部的四周。

測試項目 TestPorp e r ty	測试值TypicalValues KE951	單位 Unit	測試標準 TestMethod
矽膠材料SiliconeMaterial	KE951	--	--
顏色Color	All Color	--	Visual
硬度（矽膠） Hardness	50±5	ShoreA	ASTM-D2240
延伸率(矽膠）Elongation	/	%	ASTMD-412
擊穿電壓 DielectricBreakdownVoltage	≥4	Kv/mm	ASTM-D149
表面摩擦係數 CoefficientofFriction	3U/18U/38U	μ	ASTM-D3567
使用溫度範圍 OperatingTemperatureRange	-20～180	℃	EN344
使用相對濕度範圍 OperatingHumidityRange	0～65	%	EN344
環保測試	PASS	--	ROHS

上述測試數值為我司實驗室資料，僅供參考，具體參數以我司出具的《樣品承認書》為准。

备注：厚度公差 0.05T-0.6 ±0.03　　0.6T-1T ±0.04　　1.1T 以上正负公差 0.1

0.05-0.15 保质期 3 个月，0.2 以上保质期 6 个月（恒湿恒温）

Dexerials

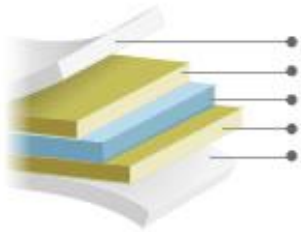
Technical Data Sheet

General-purpose double coated tapes T4000/T4000W

Features

■ T4000 is double coated adhesive tape developed for the requirement of strong and permanent bonding. It is highly selected double coated adhesive tape with outstanding reliability, having high temperature adhesion.

Structure

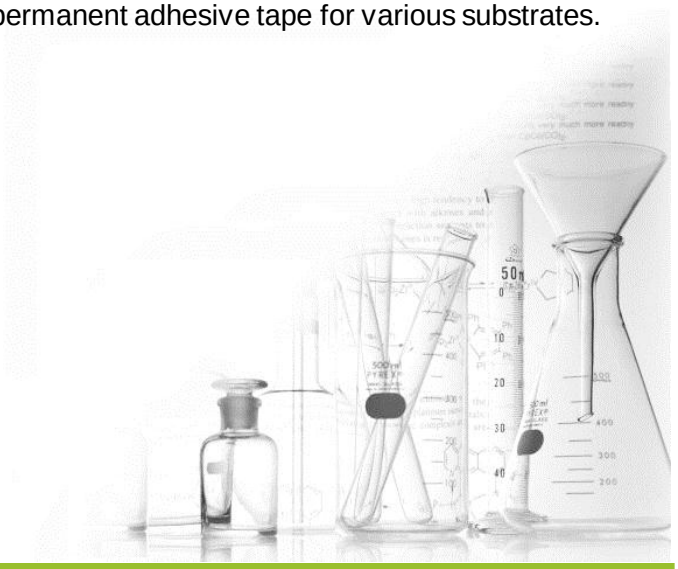


Product name	T4000	T4000W *2
Main component	Acrylic	Acrylic
Carrier	Nonwoven fabric	Nonwoven fabric
Color	Translucent *3	Translucent *3
Adhesive thickness (μm)	About 150	About 150
Release paper thickness (μm)	About 150	About 150+120
Bonding strength (N/20mm) *	14	14
St'd size (width & length)	500mm × 50m	500mm × 50m

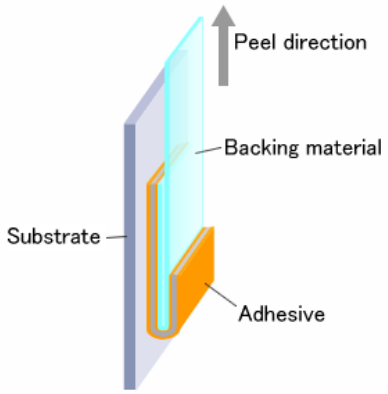
* 180° peeling strength
*2 T4000W/T4000BW is with both side release paper.
*3 T4000B/T4000BW is black type.

Suitable use

■ T4000 is most suitable for the adhesion to surface decorative sheet, rating plate, etc. Made of metal and plastic material for the automobiles and household electric appliances. T4000 is recommendable for use as a double coated permanent adhesive tape for various substrates.



1. Bonding strength on various type of substrate (180° peeling)



＜180° peeling strength test＞

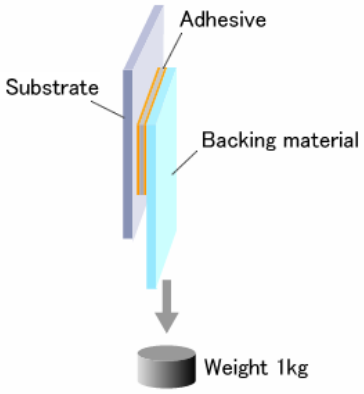
＜Test piece condition＞
Tape width：20mm
Bonding condition：One stroke with 2-kg roller
Measuring condition：23℃±5℃ 60%±20%RH
Peeling speed：300mm/min
Backing material：25μmPET
[Left at RT for one hour before measurement]

＜Results＞ (N/20mm)

Substrate	SUS	AL	ABS	Acrylic	PC	CR	NR
180° peeling strength	14.2	13.0	14.1	14.9	15.4	3.2	2.8

2. Holding power at different temperatures

＜Test piece condition＞
Substrate：Stainless steel plate (SUS304)
Bonding area：25mm×25mm
Bonding condition：One stroke with 2-kg roller
[Left at RT for one hour and then at each temperature for 30 minutes before measurement]
[Creep length after one hour application of 1-kg load]



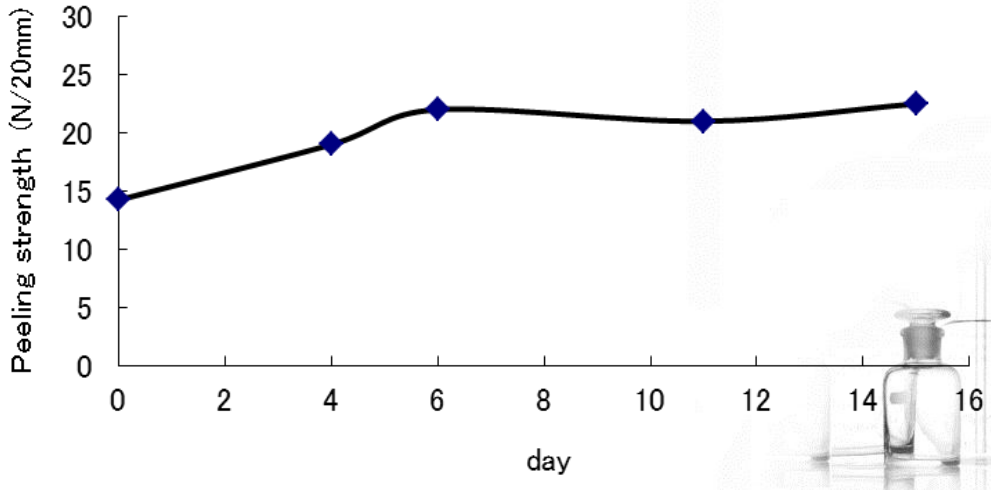
＜Holding power test＞

＜Results＞

Measurement temperature	40℃	60℃	80℃
Creep length（mm）	0.3	0.4	0.4

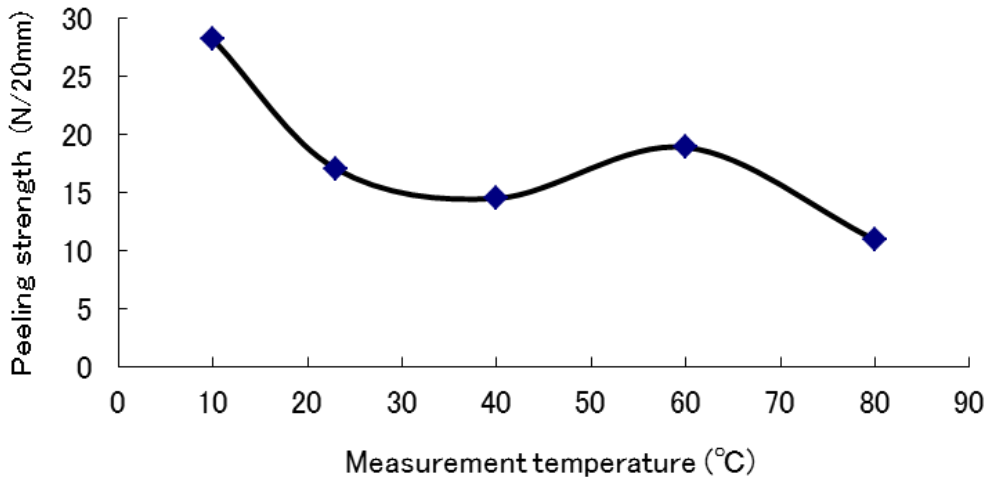
3. Reliability of bonding strength (180° peeling)

＜Test piece condition＞
Substrate：Stainless steel plate (SUS304)
Tape width ：20mm
Bonding condition：One stroke with 2-kg roller
Peeling speed：300mm/min
Backing material：25μmPET
[Leave the substrate for one hour at room temperature and aging at 70 °C condition]



4. Bonding strength at different temperatures (180° peeling)

＜Test piece condition＞
Substrate: Stainless steel plate (SUS304)
Tape width : 20mm
Bonding condition: One stroke with 2-kg roller
Peeling speed: 300mm/min
Backing material: 100℃25μmPET
[Left at RT for one day and then at each temperature for 30 minutes before measurement]





Revised in Oct. 2012

Note on the characteristic data given— Data on the characteristics of the products described in this catalog are based on the results of evaluations carried out by the company. This does not guarantee that the characteristics of the product conform with your usage environment. Before use, review the usage conditions based on evaluation data obtained from the equipment and substrates actually used.

Dexerials Corporation URL: http://www.dexerials.jp/en/
Head Office: Gate City Osaki, East Tower 8th floor,1-11-2 Osaki, Shinagawa-ku, Tokyo, JAPAN 141-0032
Sales & Marketing Dep. TEL : +81-3-5435-3946

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测试报告 Test Report

No.ITC1SZLC4899307D1 签发日期 Issued Date：2025-05-15 第 1页，共 11页 Page 1 of 11

委托单位 Applicant：苏州柯裕电子材料有限公司 SUZHOU KEYU ELECTRONIC MATERIALS CO.LTD.

委托单位地址 Address of applicant：苏州市相城区黄埭镇春申路 995-1 号 No.995-1 Chunshen Road, HuangdaiTown, Xiangcheng District,Suzhou City

委托单位提供样品信息如下：

The following sample(s) was/were submitted and identified on behalf of the client as：

样品名称 Sample Name：硅胶 RUBBER

样品型号 Sample Model：覆盖型号：PMP P2100-520U 系列、NJ-352H 系列、TSE221 系列、KE951 系列、KE95IU 系列、KE931 系列、KE961 系列、KE5612 系列

coverage model:PMPP2100-520U series, NJ-352H series,TSE221 series, KE 951series, KE95IUseries,KE 931series, KE 961series,KE5612series

样品接收日期 Sample Received Date：2025-05-09

样品测试日期 Testing Period：2025-05-09~2025-05-15

参考要求：1.依据客户要求，参照欧盟 RoHS 指令 2011/65/EU 及其修订指令(EU)2015/863 中的要求，检测样品中铅(Pb)、镉(Cd)、汞(Hg)、六价铬(Cr(VI))、多溴联苯(PBBs)、多溴二苯醚(PBDEs)、邻苯二甲酸二丁酯(DBP)、邻苯二甲酸苄基丁酯(BBP)、邻苯二甲酸二异丁酯(DIBP)、邻苯二甲酸二(2-乙基已基)酯(DEHP)的含量。

2.参照 IEC 61249-2-21:2003 中的要求，检测送检样品中卤素(氟、氯、溴、碘)的含量

Test Requested：1.According to client's requirements, Refer to EU RoHS Directive 2011/65/EU and Amendment (EU)2015/863 to determine the content of Lead(Pb),Cadmium(Cd), Mercury(Hg), Hexavalent Chromium(Cr(VI)) , Polybrominated Biphenyls(PBBs), PolybrominatedDiphenylethers(PBDEs), Dibutyl phthalate(DBP), Benzylbutyl phthalate(BBP), Diisobutyl phthalate(DIBP) and Bis(2-ethylhexyl)phthalate(DEHP) in the submitted sample.

2.According to the clinet's requirements, refer to the requirements of IEC 61249-2-21:2003, to determine the contents of Halogen (Fluorine(F), Chlorine(Cl), Bromine(Br), Iodine(I)) in the submitted samples.

测试依据 Test Methods：请参见下页 Please refer to next page(s)

测试结果 Test Result：请参见下页 Please refer to next page(s)

编制人 Edited by：黄李丽 黄 李 丽

审核人 Checked by：黄杨天智 黄 杨 天 智

批准人 Approved by：史保田 史 保 田

PONY TESTING INTERNATIONAL GROUP JIANGSU CO.,LTD. 谱尼测试集团江苏有限公司 PONY 检验检测专用章

查询密码 Code：4xc9hgd2h7

PONY 谱 尼 测 试
Pony Testing International Group

声 明
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If the applicant has any objection to the report data, please submit a written application for retesting to us within 15 days after the completion of the report (for the report of primary agricultural products, submit a written application for retesting to the unit within 5 working days after the receipt of the report), with the original report attached and the retesting fee prepaid.

4. 委托单位办理完毕以上手续后，本单位会尽快安排复测。如果复测结果与异议内容相符，本单位将退还委托单位的复测费。
After the applicant completes the above procedures, we shall arrange the retesting as soon as possible. If the retest result is consistent with the objection, we will refund the retest fees.

5. 不可重复性或不能进行复测的实验，不进行复测，委托单位放弃异议权利。
If the experiment cannot be repeated or cannot be retested, no retest shall be conducted, and the applicant shall waive the right of objection.

6. 委托单位对送检样品的代表性和资料的真实性负责，否则本单位不承担任何相关责任。
The applicant is responsible for the representativeness of the commissioned samples and the authenticity of the documents, otherwise we do not assume any relevant responsibilities.

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8. 本单位有权在完成报告后按规定方式处理所测样品，除客户特别声明并支付样品管理费，所有超过标准规定时效期的样品均不再做留样。
We have the right to dispose the tested sample after approval of the test report. Unless the applicant specifically declares and pays the sample management fee, all samples beyond the validity period specified in the standard will not be retained.

9. 本单位保证工作的客观公正性，对委托单位的商业信息、技术文件等商业秘密履行保密义务。
We assure the objectivity and impartiality of the test, and fulfills the obligation of confidentiality for applicant’s commercial information, and technique document.

10. 本报告私自转让、盗用、冒用、涂改、未经本单位批准的复制(全文复制除外)或以其它任何形式的篡改均属无效，本单位将对上述行为严究其相应的法律责任。
Any unauthorized transfer, appropriation, falsification, alteration, copying (except full text copying) or alteration in any other form of this report without the approval of us shall be invalid. We shall strictly investigate the corresponding legal liability for the aforesaid behavior.

****

▲ 防伪说明(Anti-counterfeiting Instructions):

1. 报告编号是唯一的；
The report number is unique.
2. 扫描报告首页下方二维码，即可查询报告真伪。
Scan the QR code below the first page to check the authenticity of the report.

****

测试报告 Test Report No.ITC1SZLC4899307D1 签发日期 Issued Date：2025-05-15 第 2页，共 11页 Page 2 of 11

1、RoHS 2.0

测试方法：参考 IEC 62321-5:2013，采用 ICP-OES 测定铅(Pb)、镉(Cd)；
IEC 62321-4:2013+AMD1:2017，采用 ICP-OES 测定汞(Hg)；
IEC 62321-7-2:2017，采用 UV-VIS 测定非金属六价铬(Cr(VI))；
IEC 62321-6:2015，采用 GC-MS 测定多溴联苯(PBBs)、多溴二苯醚(PBDEs)；
IEC 62321-8:2017，采用 GC-MS 测定邻苯二甲酸二丁酯(DBP)、邻苯二甲酸苄基丁酯(BBP)、邻苯二甲酸二异丁酯(DIBP)、邻苯二甲酸二(2-乙基已基)酯(DEHP)

Test Methods：Refer to IEC 62321-5:2013, Determination of Pb and Cd by ICP-OES;
IEC 62321-4:2013+AMD1:2017, Determination of Hg by ICP-OES;
IEC 62321-7-2:2017, Determination of Non-metallic Hexavalent Chromium Cr(VI) by UV-VIS;
IEC 62321-6:2015, Determination ofPBBs、PBDEs by GC-MS;
IEC 62321-8:2017, Determination of DBP、BBP、DIBP、DEHP by GC-MS

测试结果 Test Result：

测试项目 Test Item	单位 Unit	MDL	结果 Result	限值 Limit
			1	
铅 Lead (Pb)	mg/kg	2	N.D.	1000
镉 Cadmium (Cd)	mg/kg	2	N.D.	100
汞 Mercury (Hg)	mg/kg	2	N.D.	1000
六价铬 Hexavalent Chromium (Cr(VI))	mg/kg	8	N.D.	1000
多溴联苯之和 Sum of PBBs (PBBs)	mg/kg	---	N.D.	1000
单溴联苯 Bromobiphenyl	mg/kg	5	N.D.	---
二溴联苯 Dibromobiphenyl	mg/kg	5	N.D.	---
三溴联苯 Tribromobiphenyl	mg/kg	5	N.D.	---
四溴联苯 Tetrabromobiphenyl	mg/kg	5	N.D.	---
五溴联苯 Pentabromobiphenyl	mg/kg	5	N.D.	---
六溴联苯 Hexabromobiphenyl	mg/kg	5	N.D.	---
七溴联苯 Heptabromobiphenyl	mg/kg	5	N.D.	---
八溴联苯 Octabromobiphenyl	mg/kg	5	N.D.	---
九溴联苯 Nonabromobiphenyl	mg/kg	5	N.D.	---
十溴联苯 Decabromobiphenyl	mg/kg	5	N.D.	---
多溴二苯醚之和 Sum of PBDEs (PBDEs)	mg/kg	---	N.D.	1000
单溴二苯醚 Bromodiphenyl ether	mg/kg	5	N.D.	---
二溴二苯醚 Dibromodiphenyl ether	mg/kg	5	N.D.	---
三溴二苯醚 Tribromodiphenyl ether	mg/kg	5	N.D.	---
四溴二苯醚 Tetrabromodiphenyl ether	mg/kg	5	N.D.	---
五溴二苯醚 Pentabromodiphenyl ether	mg/kg	5	N.D.	---
六溴二苯醚 Hexabromodiphenyl ether	mg/kg	5	N.D.	---

七溴二苯醚 Heptabromodiphenyl ether	mg/kg	5	N.D.	---
八溴二苯醚 Octabromodiphenyl ether	mg/kg	5	N.D.	---
九溴二苯醚 Nonabromodiphenyl ether	mg/kg	5	N.D.	---
十溴二苯醚 Decabromodiphenyl ether	mg/kg	5	N.D.	---
邻苯二甲酸二丁酯 Dibutyl phthalate (DBP)	mg/kg	50	N.D.	1000
邻苯二甲酸苄基丁酯 Benzylbutyl phthalate (BBP)	mg/kg	50	N.D.	1000
邻苯二甲酸二异丁酯 Diisobutyl phthalate (DIBP)	mg/kg	50	N.D.	1000
邻苯二甲酸二(2-乙基已基)酯 Bis(2-ethylhexyl)phthalate (DEHP)	mg/kg	50	N.D.	1000

备注：
(1)1 mg/kg = 1 ppm = 0.0001%
(2)N.D.= 未检出(＜MDL)
(3)MDL= 方法检出限
(4)依据客户声明：此次送检的样品硅胶可覆盖型号 PMP P2100-520U 系列、NJ-352H 系列、TSE221 系列、KE951 系列、KE95IU 系列、KE931 系列、KE961 系列、KE5612 系列其化学成分添加比例均相同
(5)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
(6)样品点位描述：
1、黑色灰色硅胶

Note：
(1) 1mg/kg = 1ppm= 0.0001%
(2) N.D. = Not Detected (＜MDL)
(3) MDL = Method Detection Limit
(4) According to the customer's statement, the Rubber samples submitted for inspection can cover models PMP P2100-520U series, NJ-352H series, TSE221 series, KE951 series, KE95IU series, KE931 series, KE961 series, and KE5612 series all have the same chemical composition addition ratio.
(5) The sample test is based on the applicant's request for a hybrid test, and the results of the mixed test in the report do not represent the content of a single material.
(6) Sample point position description:
1、Black and gray Rubber

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谱尼测试集团江苏有限公司
公司地址：江苏省苏州市工业园区金芳路 8 号
检测地址：江苏省苏州市工业园区金芳路 8 号
电话：0512-62997900
传真：0512-68021475

2、卤素 Halogen

测试方法：参考 BS EN 14582:2016，采用离子色谱仪分析

Test methods：Refer to BS EN 14582:2016, analysis was performed by Ion Chromatography

测试结果：

Test Result：

测试项目 Test Item	单位 Unit	MDL	结果 Result 1	限值 Limit
氟 Fluorine (F)	mg/kg	50	N.D.	---
氯 Chlorine (Cl)	mg/kg	50	N.D.	900
溴 Bromine (Br)	mg/kg	50	N.D.	900
碘 Iodine (I)	mg/kg	50	N.D.	---
氯 Chlorine (Cl) +溴 Bromine (Br)	mg/kg	---	N.D.	1500

备注：

(1)1 mg/kg = 1 ppm = 0.0001%

(2)N.D. = 未检出(＜MDL)

(3)MDL= 方法检出限

(4)依据客户声明：此次送检的样品硅胶可覆盖型号 PMP P2100-520U 系列、NJ-352H 系列、TSE221 系列、KE951 系列、KE95IU 系列、KE931 系列、KE961 系列、KE5612 系列其化学成分添加比例均相同

(5)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

(6)样品点位描述

1、黑色和灰色硅胶

Note：

(1) 1 mg/kg = 1 ppm = 0.0001%

(2) Not Detected (＜MDL)

(3) MDL = Method Detection Limit

(4) According to the customer's statement, the Rubber samples submitted for inspection can cover models PMP P2100-520U series, NJ-352H series, TSE221 series, KE951 series, KE95IU series, KE931 series, KE961 series, and KE5612 series all have the same chemical composition addition ratio.

(5) The sample test is based on the applicant's request for a hybrid test, and the results of the mixed test in the report do not represent the content of a single material.

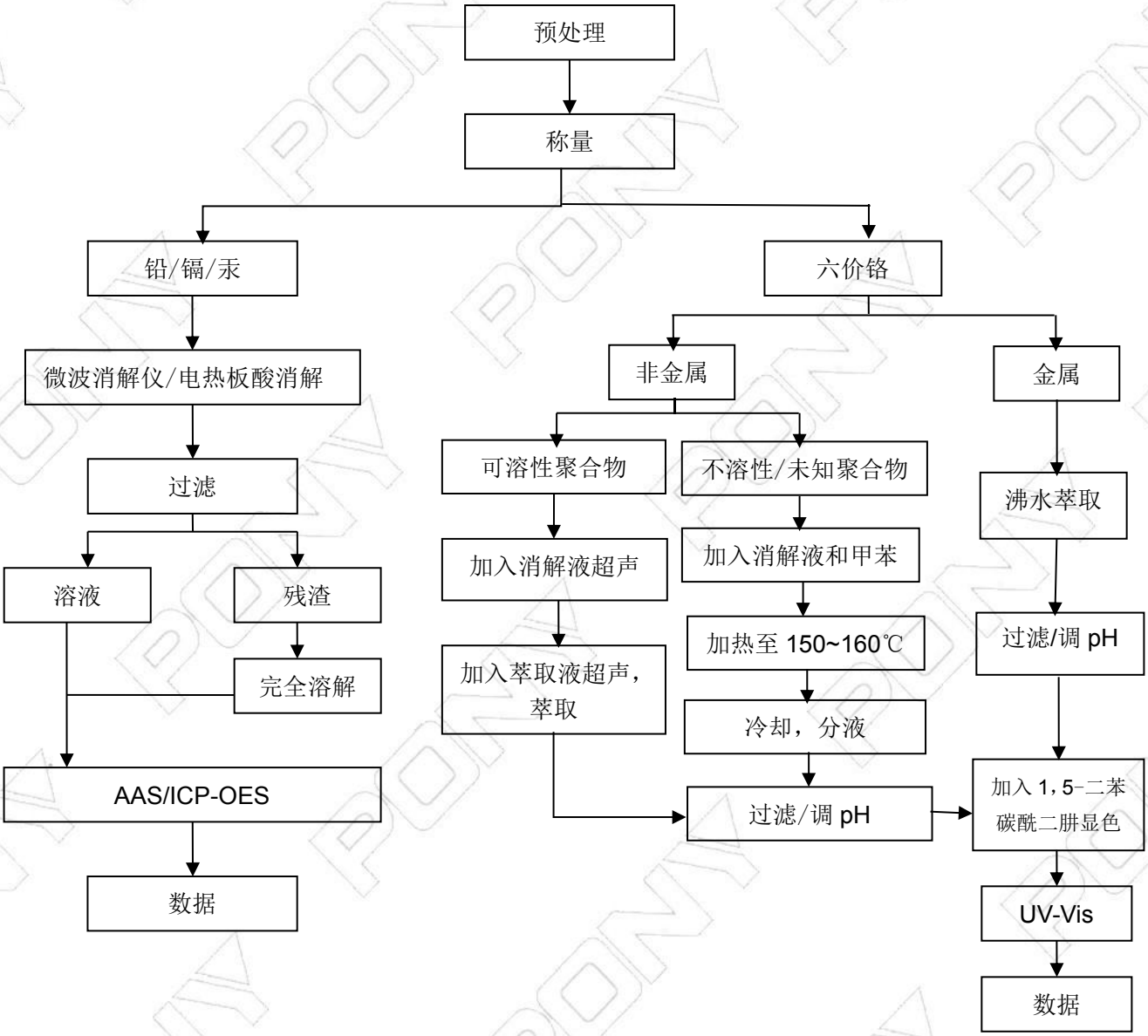
(6) Description of sample points

1、Black and gray Rubber

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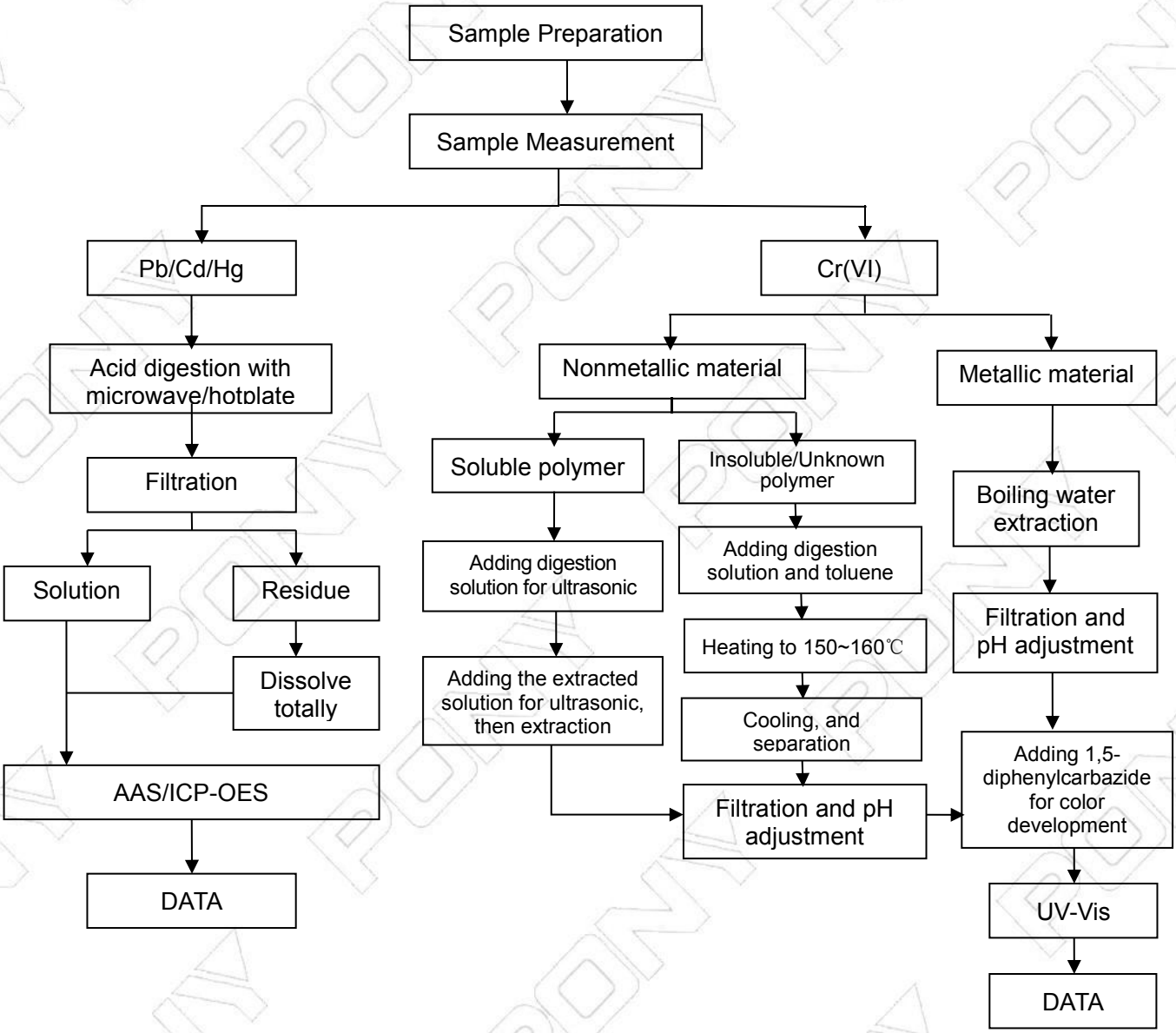
样品铅、镉、汞、六价铬测试流程



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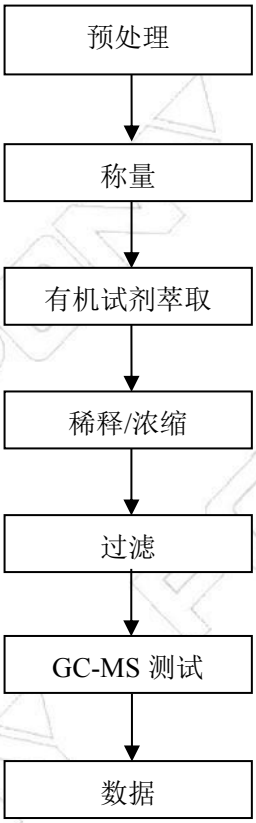
Test procedure for Lead, Cadmium, Mercury and Hexavalent Chromium



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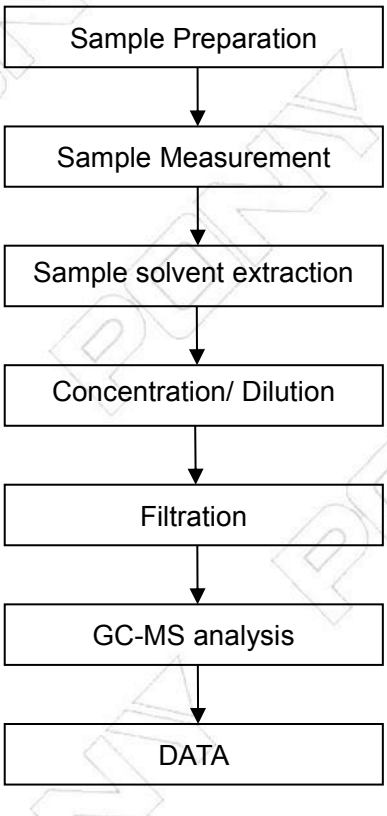
样品多溴联苯、多溴二苯醚、邻苯二甲酸酯测试流程



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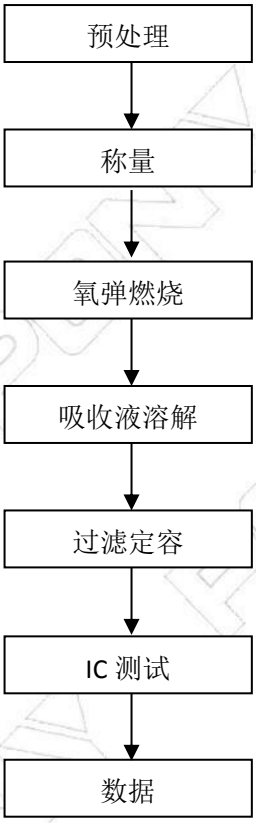
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Test procedure for Polybrominated Biphenyls, Polybrominated Diphenyl Ethers, Phthalates



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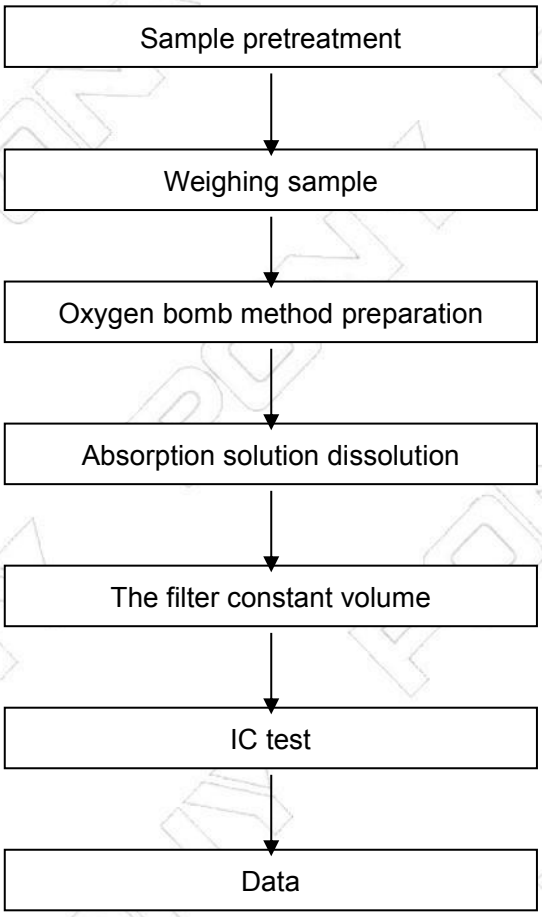
样品卤素测试流程



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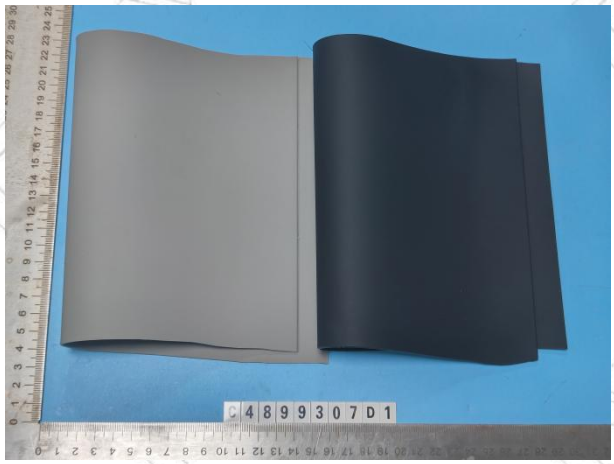
Test procedure for Halogen



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样品编号和照片 Sample No. &Photo：



仅对报告照片中的样品负责

Pony authenticate the photo on original report only

————报告结束————

————End of Report————

谱尼测试集团江苏有限公司
公司地址：江苏省苏州市工业园区金芳路 8 号
检测地址：江苏省苏州市工业园区金芳路 8 号
电话：0512-62997900
传真：0512-68021475

物质安全资料表

(Material Safety data sheet)

一、 Product and company identification/物质与厂商资料

物品名称:硅胶 rubber
物品编号：KE951 系列、NJ 系列、TSE221 系列
制造商或供应商名称,地址及电话:苏州柯裕电子材料有限公司 苏州市相城高新区春申路 995-1 号 电话: （0512）65710528
紧急联络电话/传真电话： TEL：（0512）65710528

二、 Composition,information on ingredients/成分辩识资料

中英文名称：硅橡胶/SLICONE ROBBER
同义名称： 无
化学文摘社登记号码（CAS No.）： CAS# 112926-00-8
危害物质成分（成分百分比）： 无

混合物：

KE951 系列：		
组成成分名称	CAS 号	含量%
甲基乙烯基二甲 基（硅氧烷与聚硅 氧烷）	67762-94- 1	49.75-55.5%
二氧化硅	7631-86-9	29.25-28.5%
PET	25038-59-9	20-15%
色胶	1333-86-4	0.5%
其它		0.5%

TSE221-5U：		
组成成分名称	CAS 号	含量%
八甲基环四硅氧烷	556-67-2	0.1 - <1%
* 除气体外，所有组分的浓度均为重量百分比。气体浓度是体积百分比。		

TSE221-6U：		
组成成分名称	CAS 号	含量%
二氧化硅	7631-86-9	20 - <50%
硅藻土	68855-54-9	10 - <20%
八甲基环四硅氧烷	556-67-2	0.1 - <1%
* 除气体外，所有组分的浓度均为重量百分比。气体浓度是体积百分比。		

TSE221-7U：

组成成分名称	CAS 号	含量%
硅藻土	68855-54-9	20 - <30%
八甲基环四硅氧烷	556-67-2	0.1 - <1%

＊ 除气体外，所有组分的浓度均为重量百分比。气体浓度是体积百分比。

TSE221-8U：

组成成分名称	CAS 号	含量%
硅藻土	68855-54-9	30 - <60%
八甲基环四硅氧烷	556-67-2	0.1 - <1%

＊ 除气体外，所有组分的浓度均为重量百分比。气体浓度是体积百分比。

NJ 系列：

组成成分名称	CAS 号	含量%
甲基乙烯基生胶	68083-18-1	30-50%
白炭黑（二氧化硅	14464-46-1	10-25%
阻燃剂(氢氧化铝)	21645-51-2	35-55%
助剂：羟基硅油	63148-62-9	2-6%

三、 Hazard identification/危害辩识资料

健康危害效应：

a) 对健康之危害（急性及慢性）：无

b) 暴露于本物质时会產生的现象与病因：无

c) 因暴露于本物质所可能引起的一般病理情况：无

主要症状： 无

四、 First aid measures/急救措施

不同暴露途径之急救方法： 若因处理气体或分解物而致感觉不适，应将患者移离现场。

五、 Fire fighting measures/ 灭火措施

适用灭火剂： 水、干式消防药剂、二氧化碳

特殊灭火程序： 应穿着通风良好之衣物及防护衣，以防止烟雾与皮肤及眼睛接触

消防人员之特殊防护设备： 消防人员须穿戴防护具及空气呼吸器，站在上风处救火

六、 ACCIDENTAL RELEASE MEASURES/浅漏处理方法

此物品爲固体状态并无浅漏之疑虑

七、 Handling and storage/安全处置与储存方法

处置：避免日晒雨淋之场所，并远离火苗及高温
储存：常温室,温度为 18-25℃ ,湿度为 64%±5%最佳

八、 Exposure controls protection/暴露预防措施

工程控制： 建议使用机械式（一般型）通风设备，并应该具有防爆措施
个人防护设备： 无
卫生措施： ● 工作完后须彻底洗手 ● 维持工作场所干净清洁

九、 Physical and chemical properties/物理及化学性质

物理状态： 固体	铅化合物： ＜2ppm （最低检测值： 2ppm）
分解温度： 无参考资料	镉化合物： ＜2ppm （最低检测值： 2ppm）
汽化比例： 无	汞化合物： ＜2ppm （最低检测值： 2ppm）
溶 解 度： 不溶解于水	铬化合物： ＜2ppm （最低检测值： 2ppm）

十、 stadility and reactivity/安定性及反应性

安定性： 常温常压下稳定
应避免之状况： 任何纸张与塑胶遇到持续加温均有可能导致燃烧

十一、 TOXICOLOGICAL INFORMATION/毒性资料

无毒性

十二、 Ecological information/生态资料

可能之环境影响/环境流失： 无水溶性，对环境影响很小

十三、 Disposl considerations/废弃处置方法

废弃处置方法： ● 依据最新版 [废弃物清理法]及其它相关环保法规处置 ● 废弃品于未回收前须分类置于回收设备中

十四、 Transport information/运送资料

国内运送规定：道路交通安全规则

十五、 Regulatory information/法規資料

适用法规： ● 劳工安全卫生设施规则 ● 危险物及有害物通识规则 ● 道路交通安全规则 ● 事业废弃物贮存清除处理方法及设施标准

十六、 Other information/其它資料

参考文献	无		
制表单位	名称：品管部		
	地址： 苏州柯裕电子材料有限公司/苏州市相城高新区春申路 995-1 号 电话: （0512）65710528		
制表人	薛晓兰	审核	曹小峰
日 期	2024 年 5 月 7 日	增加:NJ 系列，TSE221 系列	
日 期	2024 年 7 月 15 日	增加:TSE221-5U,7U,8U	
日 期	2025 年 5 月 15 日	应该客户 GP 需求更新	

SAFETY DATA SHEET

Date Prepared : 10/07/1999
Date Revised : 08/26/2022

SECTION 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product name : T4000 (Pressure sensitive double sided tape)
Manufacturer : Dexerials Corporation
Address : 1724 Shimotsuboyama, Shimotsuke-shi,
Tochigi 323-0194, Japan
Phone: +81-285-39-7950 Fax: +81-285-47-3242

SECTION 2. HAZARDS IDENTIFICATION

Classification of hazardous
Not applicable
Emergency overview
There is no special hazard in the normal use of this product.
Contact with adhesive face may cause irritation.
It is recommended to wear suitable protective gloves.
Ventilate if smells at working area.
Potential health effects
Skin/Eyes contact
Direct contact may cause irritation or sensitization.
Ingestion/Inhalation
Breathe in smell of product may cause headache, nausea and irritation to respiratory system.
Chronic effects/Carcinogenicity
None has known as product.

SECTION 3. COMPOSITION / INFORMATION ON INGREDIENTS

<Component> (% by weight)

1. Adhesive

Substance	CAS#	Concentration
Synthetic Resin	Trade Secret	70～80%
Tackifier	Trade Secret	20～30%

2. Base material

Substance	CAS#	Concentration
Non-woven paper	N/A	100%

3. Release liner

Substance	CAS#	Concentration
Polyethylene laminated paper coated with silicone release agent	N/A	100%

SECTION 4. FIRST AID MEASURES

Inhalation
Remove to fresh air if feel ill by smell of product.
If the condition of a disease continues or getting worse, seek medical attention.

Eye contact
Rinse immediately with plenty of water.
If irritation persists, seek medical attention.

Skin contact
Remove it gently then rinse with water.
If irritation persists, seek medical attention.

Ingestion
As supplied, product is a solid material and would not in practice, be ingested.

SECTION 5. FIRE-FIGHTING MEASURES

Extinguish media
Water spray, Carbon dioxide, Dry chemical powder or Foam

Prohibited Extinguishing media
No information

Firefighting instruction
Wear positive pressure, self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.
Evacuate area and fight fire from a safe distance.

SECTION 6. ACCIDENTAL RELEASE MEASURES

As supplied, product is a solid material and would not in practice, be released.

SECTION 7. HANDLING AND STORAGE

Handling

Protection gear may not be required in particular in the normal use of this product.
It is recommended to wear suitable protective gloves in the case of direct contact with the adhesive face.
Handle at well-ventilated place so as not to be inhaled the smell of product.
It is recommended to install the appropriate equipment of ventilation when the smell of product is spread at working area.

Storage

Store in a cool and dark place.

SECTION 8. EXPOSURE CONTROLS, PERSONAL PROTECTION

Engineering controls

Suitable ventilating equipment should be installed at working area if smells hardly.

Personal protection

Protective gloves: Wear impervious gloves (polyethylene, nitrile rubber) when contact with the adhesive face.
Protective glasses: Not required in particular.
Protective clothes: Not required in particular.

Exposure guideline

No data as product.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	Adhesive tape
Color	:	Light Yellow
Odor	:	Slight
Boiling point	:	Not applicable
Vapor pressure	:	Not applicable
Melting point	:	Not applicable
Solubility in water	:	Insoluble in water
Specific gravity	:	Approx. 0.8

SECTION 10. STABILITY AND REACTIVITY

Stability

Stable under normal handling conditions.

Incompatibility

Strong acids and strong oxidizing agents.

Hazardous decomposition products

Carbon monoxide, Carbon dioxide

Hazardous polymerization

It will not occur.

SECTION 11. TOXICOLOGICAL INFORMATION

No information and data as product

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicological information

Unknown

Other harmful information

Unknown

SECTION 13. DISPOSAL CONSIDERATIONS

Comply with all applicable federal, state and local regulations.

SECTION 14. TRANSPORT INFORMATION

UN NO.	:	Not listed
International classification	:	Not relevant

SECTION 15. REGULATORY INFORMATION

Export control law in Japan: Under control item of Catch-all regulation.
Other regulatory information

We are not able to check up the regulatory information in regard to the substances in your country or region, therefore, we request this matter would be filled by your responsibility.

SECTION 16. OTHER INFORMATION

Reference

SDS of each component issued by material makers.

The information herein is the best of our knowledge and is only related to this specific product.
No warranty, either expressed or implied, is made with respect to such information.
The recommended handling procedures are believed to be generally applicable.
However, it is user's responsibility to review these recommendations in the specific content of the intended use. We reserve the right to revise this SDS as new information become available. It is recommended to ask for the latest version to our sales division.

End of SDS