# 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: SPONGE SPACER L/R

(Parts Name)

料　号: 3MD694TH070(M3533)

(Stuff No.)

日　期: 2026年3月19日

(DATE)

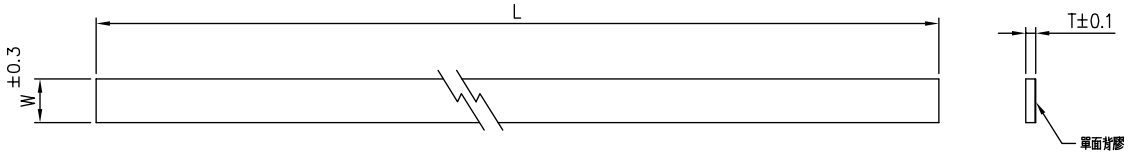
設計驗證
工程課
2026 -04- 17
發行
鈺緯科技開發股份有限公司

| 工　程 | 品　保 | 审　核 |
| --- | --- | --- |
| 关成凯 | 薛晓兰 | 曹小峰 |

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| | | |
| | | |

| REV. | DATE | DESCRIPTION | BY | APVD |
|---|---|---|---|---|
| | | | | |




| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | |
| | | | | | | | | | | |
| 1 | 3MD694TH070 | TOUCH SPACER | 313.4 | 4 | 1.0 | SR-S-32P | SONY T4000 | QD2481AI-P | | |
| | PART NO. | PART NAME | L | W | T | MATERIAL | ADHESIVE | USED ON | APPD NO. | |

設計驗證
工程課
2026 -04- 17
發行

NOTES:
1. MATERIAL: SEE THE TABLE
2. 檢驗規範文件編號:QWI-024

| RANGE OF DIMENSION | TOLERANCE CLASS DESIGNATION | | | | THIRD ANGLE PROJECTION | UNITS: mm | SCALE: 1/1 | SHEET: 1 OF 1 | MODEL NO.: |
|---|---|---|---|---|---|---|---|---|---|
| | f | m | c | V (Rubber/Sponge/Mylar/Gasket) | | MATERIAL: | | TREATMENT: | |
| 0.5 UP TO 3 | ±0.5 | ±0.1 | ±0.2 | ±1.2 | DSGD by | Ferris Tsai | 2025.05.20 | PART NAME:SPONGE SPACER L/R | |
| OVER 3\6 | ±0.5 | ±0.1 | ±0.2 | ±1.2 | | | | | |
| OVER 6\30 | ±0.1 | ±0.2 | ±0.5 | ±(1.5) | CHK by | Kane | 2026-03-25 | DIVA P/N: 3MD694TH070 | |
| OVER 30\120 | ±0.15 | ±0.3 | ±0.8 | ±1.5 | | | | | |
| OVER 120\400 | ±0.2 | ±0.5 | ±1.2 | ±1.5 | APVD by | Laslie | 2026-04-08 | Qisda NO. 4G.6G608.002 | |
| OVER 400\1000 | ±0.3 | ±0.6 | ±1.5 | ±1.5 | | | | | |
| ANGLE ±° (≥1.75/100) | | | | | APVD NO.: (M3533) | | 3D FILE NAME: DRW0006 | 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 | SPONGE SPACER TOP/BT<br>SPONGE SPACER L/R |
|---|---|---|---|
| 客户料号 | 3MD694TH070 | 日期 | 2026/3/19 |

| 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 | SR-S-32P+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) | 539 | 0.8 | 539.010 | 539.030 | 539.050 | 539.100 | 538.920 | 卡尺 | OK |
| | | 4 | 0.3 | 3.990 | 3.970 | 3.950 | 3.900 | 3.920 | 卡尺 | OK |
| | | 1 | 0.1 | 1.010 | 1.030 | 1.050 | 1.100 | 0.920 | 卡尺 | OK |
| | | | | | | | | | | |
| | | 313.4 | 0.5 | 313.410 | 313.430 | 313.450 | 313.500 | 313.320 | 卡尺 | OK |
| | | 4 | 0.3 | 3.990 | 3.970 | 3.950 | 3.900 | 3.920 | 卡尺 | OK |
| | | 1 | 0.1 | 1.010 | 1.030 | 1.050 | 1.100 | 0.920 | 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

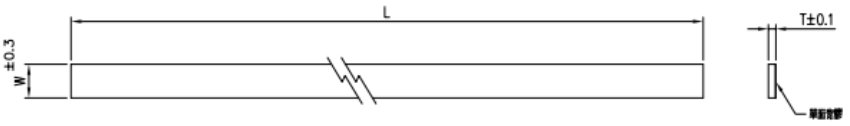
# 苏州柯裕电子材料有限公司

Suzhou Keyu Electronic Materials Co., Ltd.

检验标准书(SIP)

| 文件編號 | SIP-QC-1164 | 产品名称 | SPONGE SPACER L/R | | | 材　質 | 依图纸 |
|---|---|---|---|---|---|---|---|
| | | 产品料号 | 3MD694TH070 | | | 版　本 | B |
| 制定日期 | 2021/11/25 | 修訂日期 | 2026/3/19 | 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）




| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | |
| 1 | 3MD694TH070 | TOUCH SPACER | 313.4 | 4 | 1.0 | SR-S-32P | SONY T4000 | QD2481AI-P | | |
| | PART NO. | PART NAME | L | W | T | MATERIAL | ADHESIVE | USED ON | APPD NO. | |

| 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 | 3MD694TH070 | 包装方式 | PE袋/纸箱 | 版本 | A |
| | | 品名描述 | | SPONGE SPACER TOP/BT<br>SPONGE SPACER L/R | | | |

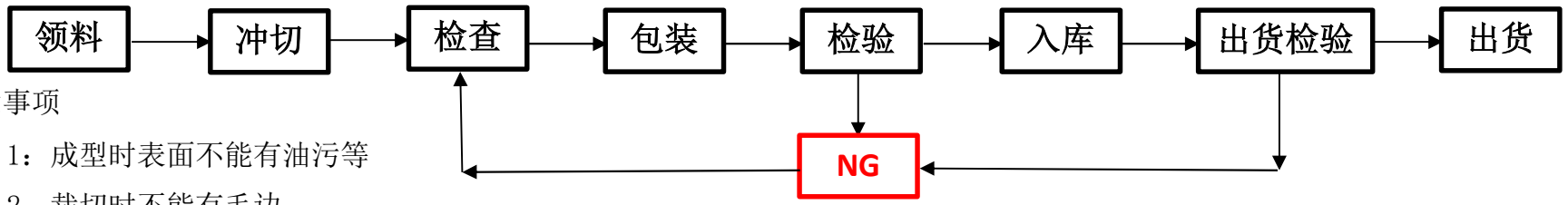
一. 产品包装:

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 | 2026年3月19日 | 2026年3月19日 |

PORON

*The high-performance micro cellular urethanes, which are creating new fields.*


## ROGERS INOAC CORPORATION

No.2-70 Jinno-cho, Atsuta-ku, Nagoya, Aichi 456-0068 Japan

TEL: 81-52-682-5851 FAX: 81-52-682-1720


PORON Technical Data Sheet

# PORON SR-S-32P PHYSICAL PROPERTY

| PROPERTY | UNIT | DATA | TEST METHOD |
|---|---|---|---|
| Thickness | mm | ±10% | Thickness gauge |
| Density | $kg/m^3$ ($g/cm^3$) | 320 (0.32) | JIS K 6401 |
| 25% Compression Load Deflection | MPa ($kg/cm^2$) | 0.011 (0.11) | JIS K 6254 |
| Compression set | % | 2.2 | JIS K 6401 |
| | | | |

Dexerials

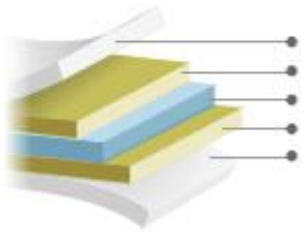
Technical Data Sheet

# 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

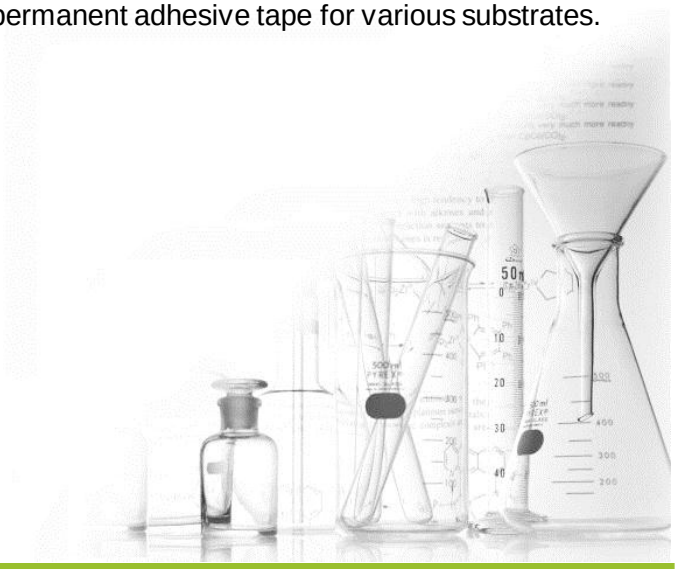



| Product name | T4000 | T4000W *2 |
|---|---|---|
| Main component | Acrylic | Acrylic |
| Carrier | Nonwoven fabric | Nonwoven fabric |
| Color | Translucent *3 | Translucent *3 |
| Adhesive thickness (μm) | About 150 | About 150 |
| Release paper thickness (μm) | About 150 | About 150+120 |
| Bonding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

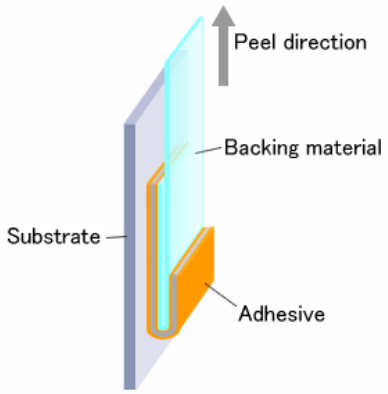
* 180° peeling strength
*2 T4000W/T4000BW is with both side release paper.
*3 T4000B/T4000BW is black type.

## 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＞

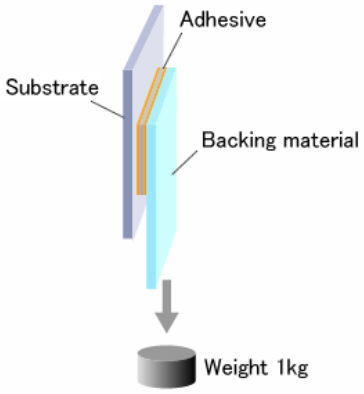
＜Test piece condition＞
Tape width：20mm
Bonding condition：One stroke with 2-kg roller
Measuring condition：23℃±5℃ 60%±20%RH
Peeling speed：300mm/min
Backing material：25μmPET
[Left at RT for one hour before measurement]

＜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]



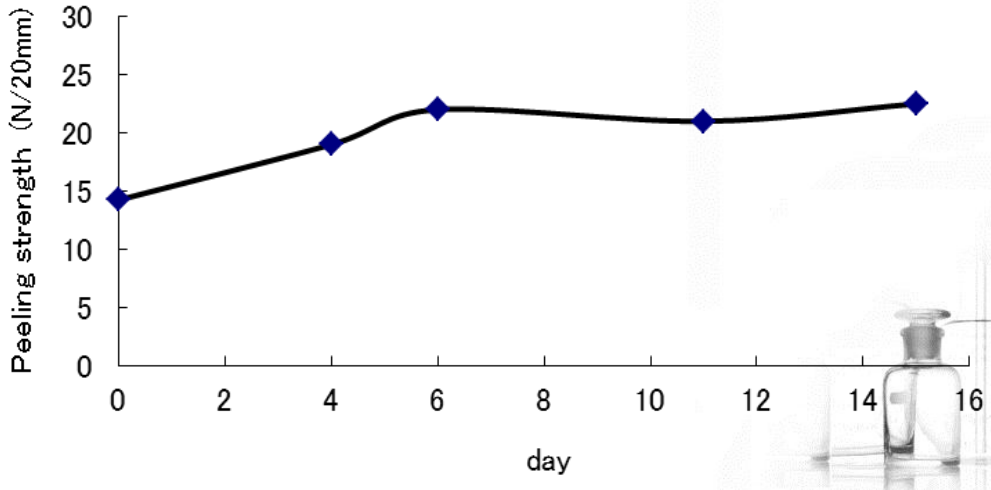
＜Holding power test＞

＜Results＞

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

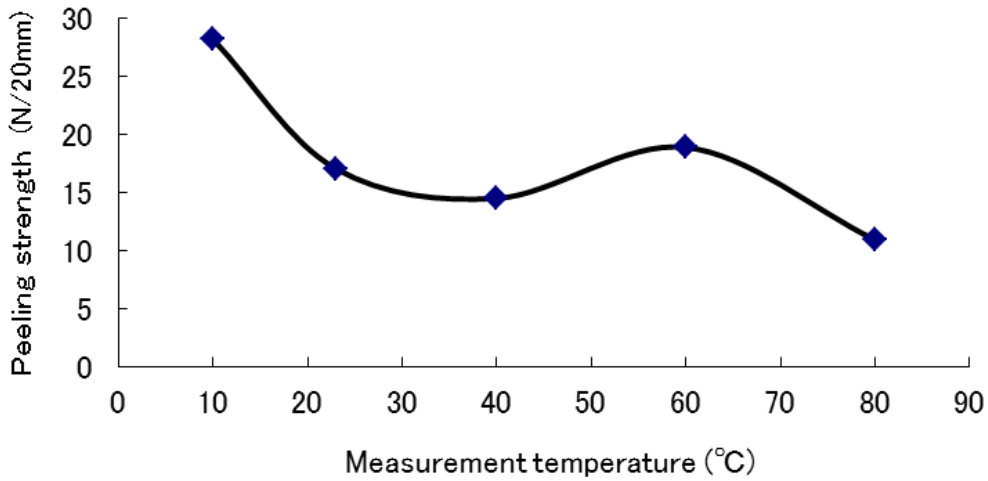
3. Reliability of bonding strength (180° peeling)

＜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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# Test Report

No.: ETR25603745 Date: 27-Jun-2025 

DEXERIALS CORPORATION
1724 SHIMOTSUBOYAMA, SHIMOTSUKE-SHI, TOCHIGI 323-0194, JAPAN

**The following sample(s) was/were submitted and identified by the applicant as:**

| | | |
|---|---|---|
| Sample Name | : | ADHESIVE |
| Style/Item No. | : | T4000 |
| Lot No. | : | 4H04-02 |

==========

| | | |
|---|---|---|
| Sample Receiving Date | : | 19-Jun-2025 |
| Testing Period | : | 19-Jun-2025 to 27-Jun-2025 |

**Test Requested** :

(1) As specified by client, with reference to RoHS 2011/65/EU Annex II and amending Directive (EU) 2015/863 to determine DBP, BBP, DEHP, DIBP contents in the submitted sample(s).

(2) Please refer to next pages for the other item(s).

**Test Results** : Please refer to following pages.

Troy Chang / Department Manager
Signed for and on behalf of
SGS TAIWAN LTD.
Chemical Laboratory - Taipei

PIN CODE: 5769D4C4

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DEXERIALS CORPORATION
1724 SHIMOTSUBOYAMA, SHIMOTSUKE-SHI, TOCHIGI 323-0194, JAPAN

**Test Part Description**

No.1 : SEMI-TRANSPARENT DOUBLE SIDED ADHESIVE (EXCLUDING THE RELEASE LINER)

**Test Result(s)**

| Test Item(s) | Method | Unit | MDL | Result |
|---|---|---|---|---|
| | | | | No.1 |
| Butyl benzyl phthalate (BBP) | With reference to IEC 62321-8: 2017, analysis was performed by GC/MS. | mg/kg | 50 | n.d. |
| Dibutyl phthalate (DBP) | With reference to IEC 62321-8: 2017, analysis was performed by GC/MS. | mg/kg | 50 | n.d. |
| Di-(2-ethylhexyl) phthalate (DEHP) | With reference to IEC 62321-8: 2017, analysis was performed by GC/MS. | mg/kg | 50 | n.d. |
| Diisobutyl phthalate (DIBP) | With reference to IEC 62321-8: 2017, analysis was performed by GC/MS. | mg/kg | 50 | n.d. |
| Diisodecyl phthalate (DIDP) (CAS No.: 26761-40-0, 68515-49-1) | With reference to IEC 62321-8: 2017, analysis was performed by GC/MS. | mg/kg | 50 | n.d. |
| Diisononyl phthalate (DINP) (CAS No.: 28553-12-0, 68515-48-0) | With reference to IEC 62321-8: 2017, analysis was performed by GC/MS. | mg/kg | 50 | n.d. |
| Di-n-octyl phthalate (DNOP) (CAS No.: 117-84-0) | With reference to IEC 62321-8: 2017, analysis was performed by GC/MS. | mg/kg | 50 | n.d. |
| Di-ethyl phthalate (DEP) (CAS No.: 84-66-2) | With reference to IEC 62321-8: 2017, analysis was performed by GC/MS. | mg/kg | 50 | n.d. |
| Dimethyl phthalate (DMP) (CAS No.: 131-11-3) | With reference to IEC 62321-8: 2017, analysis was performed by GC/MS. | mg/kg | 50 | n.d. |
| Antimony (Sb) (CAS No.: 7440-36-0) | With reference to US EPA 3052: 1996, analysis was performed by ICP-OES. | mg/kg | 2 | n.d. |

**Note :**

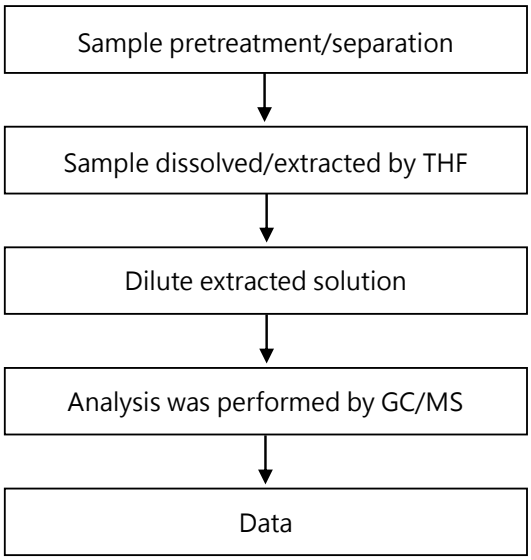
1. mg/kg = ppm ; 0.1wt% = 0.1% = 1000ppm
2. MDL = Method Detection Limit
3. n.d. = Not Detected ( Less than MDL)

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DEXERIALS CORPORATION
1724 SHIMOTSUBOYAMA, SHIMOTSUKE-SHI, TOCHIGI 323-0194, JAPAN

**Analytical flow chart - Phthalate**

**【Test method: IEC 62321-8】**



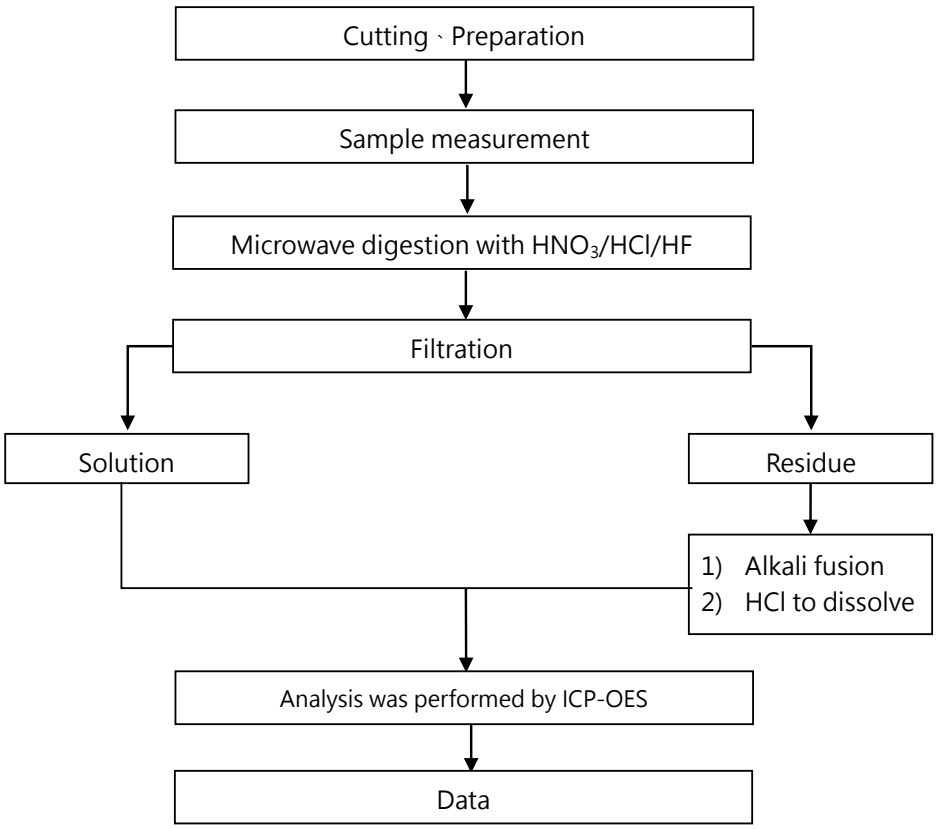

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DEXERIALS CORPORATION
1724 SHIMOTSUBOYAMA, SHIMOTSUKE-SHI, TOCHIGI 323-0194, JAPAN

**Analytical flow chart of elements (Heavy metal included)**

These samples were dissolved totally by pre-conditioning method according to below flow chart.

【Reference method：US EPA 3051A、US EPA 3052】



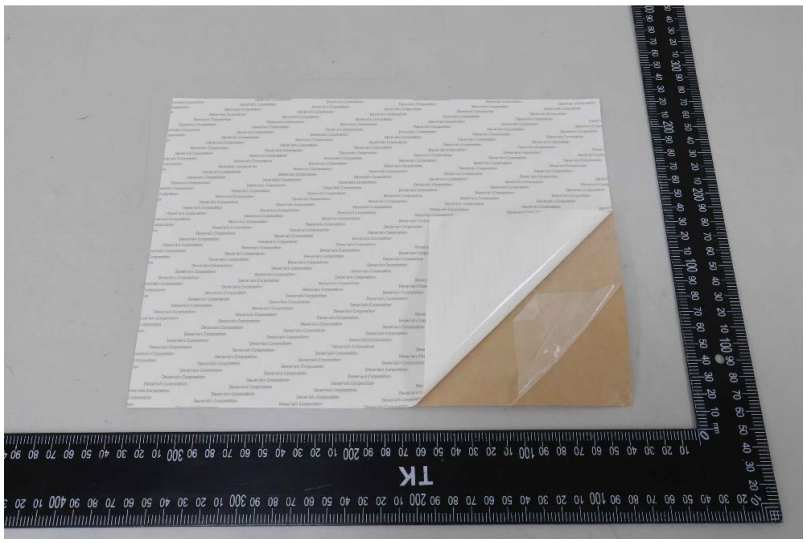

* US EPA 3051A method does not add HF.

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DEXERIALS CORPORATION
1724 SHIMOTSUBOYAMA, SHIMOTSUKE-SHI, TOCHIGI 323-0194, JAPAN

* The tested sample / part is marked by an arrow if it's shown on the photo. *

# ETR25603745



** End of Report **

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# Test Report

No.: ETR25603744 Date: 27-Jun-2025 

DEXERIALS CORPORATION
1724 SHIMOTSUBOYAMA, SHIMOTSUKE-SHI, TOCHIGI 323-0194, JAPAN

**The following sample(s) was/were submitted and identified by the applicant as:**

| | | |
|---|---|---|
| Sample Name | : | ADHESIVE |
| Style/Item No. | : | T4000 |
| Lot No. | : | 4H04-02 |

==========

| | | |
|---|---|---|
| Sample Receiving Date | : | 19-Jun-2025 |
| Testing Period | : | 19-Jun-2025 to 27-Jun-2025 |

**Test Requested** :

(1) As specified by client, with reference to RoHS Directive 2011/65/EU Annex II to determine Cadmium, Lead, Mercury, Cr(VI), PBBs, PBDEs contents in the submitted sample(s).

(2) As specified by client, to test Halogen-Fluorine, Chlorine, Bromine, Iodine in the submitted sample.

**Test Results** : Please refer to following pages.

Troy Chang / Department Manager
Signed for and on behalf of
SGS TAIWAN LTD.
Chemical Laboratory - Taipei

PIN CODE: 5F1ABCA4

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DEXERIALS CORPORATION
1724 SHIMOTSUBOYAMA, SHIMOTSUKE-SHI, TOCHIGI 323-0194, JAPAN

**Test Part Description**

No.1 : SEMI-TRANSPARENT DOUBLE SIDED ADHESIVE (EXCLUDING THE RELEASE LINER)

**Test Result(s)**

| Test Item(s) | Method | Unit | MDL | Result |
|---|---|---|---|---|
| | | | | No.1 |
| Cadmium (Cd) | With reference to IEC 62321-5: 2013, analysis was performed by ICP-OES. | mg/kg | 2 | n.d. |
| Lead (Pb) | | mg/kg | 2 | n.d. |
| Mercury (Hg) | With reference to IEC 62321-4: 2013+ AMD1: 2017, analysis was performed by ICP-OES. | mg/kg | 2 | n.d. |
| Hexavalent Chromium Cr(VI) | With reference to IEC 62321-7-2: 2017, analysis was performed by UV-VIS. | mg/kg | 8 | n.d. |
| Monobromobiphenyl | With reference to IEC 62321-6: 2015, analysis was performed by GC/MS. | mg/kg | 5 | n.d. |
| Dibromobiphenyl | | mg/kg | 5 | n.d. |
| Tribromobiphenyl | | mg/kg | 5 | n.d. |
| Tetrabromobiphenyl | | mg/kg | 5 | n.d. |
| Pentabromobiphenyl | | mg/kg | 5 | n.d. |
| Hexabromobiphenyl | | mg/kg | 5 | n.d. |
| Heptabromobiphenyl | | mg/kg | 5 | n.d. |
| Octabromobiphenyl | | mg/kg | 5 | n.d. |
| Nonabromobiphenyl | | mg/kg | 5 | n.d. |
| Decabromobiphenyl | | mg/kg | 5 | n.d. |
| **Sum of PBBs** | | mg/kg | - | n.d. |
| Monobromodiphenyl ether | | mg/kg | 5 | n.d. |
| Dibromodiphenyl ether | | mg/kg | 5 | n.d. |
| Tribromodiphenyl ether | | mg/kg | 5 | n.d. |
| Tetrabromodiphenyl ether | | mg/kg | 5 | n.d. |
| Pentabromodiphenyl ether | | mg/kg | 5 | n.d. |
| Hexabromodiphenyl ether | | mg/kg | 5 | n.d. |
| Heptabromodiphenyl ether | | mg/kg | 5 | n.d. |
| Octabromodiphenyl ether | | mg/kg | 5 | n.d. |
| Nonabromodiphenyl ether | | mg/kg | 5 | n.d. |
| Decabromodiphenyl ether | | mg/kg | 5 | n.d. |
| **Sum of PBDEs** | | mg/kg | - | n.d. |

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DEXERIALS CORPORATION
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| Test Item(s) | Method | Unit | MDL | Result |
|---|---|---|---|---|
| | | | | No.1 |
| Fluorine (F) (CAS No.: 14762-94-8) | With reference to BS EN 14582: 2016, analysis was performed by IC. | mg/kg | 50 | n.d. |
| Chlorine (Cl) (CAS No.: 22537-15-1) | With reference to BS EN 14582: 2016, analysis was performed by IC. | mg/kg | 50 | n.d. |
| Bromine (Br) (CAS No.: 10097-32-2) | With reference to BS EN 14582: 2016, analysis was performed by IC. | mg/kg | 50 | n.d. |
| Iodine (I) (CAS No.: 14362-44-8) | With reference to BS EN 14582: 2016, analysis was performed by IC. | mg/kg | 50 | n.d. |

**Note：**

1. mg/kg = ppm；0.1wt% = 0.1% = 1000ppm
2. MDL = Method Detection Limit
3. n.d. = Not Detected ( Less than MDL)
4. "-" = Not Regulated

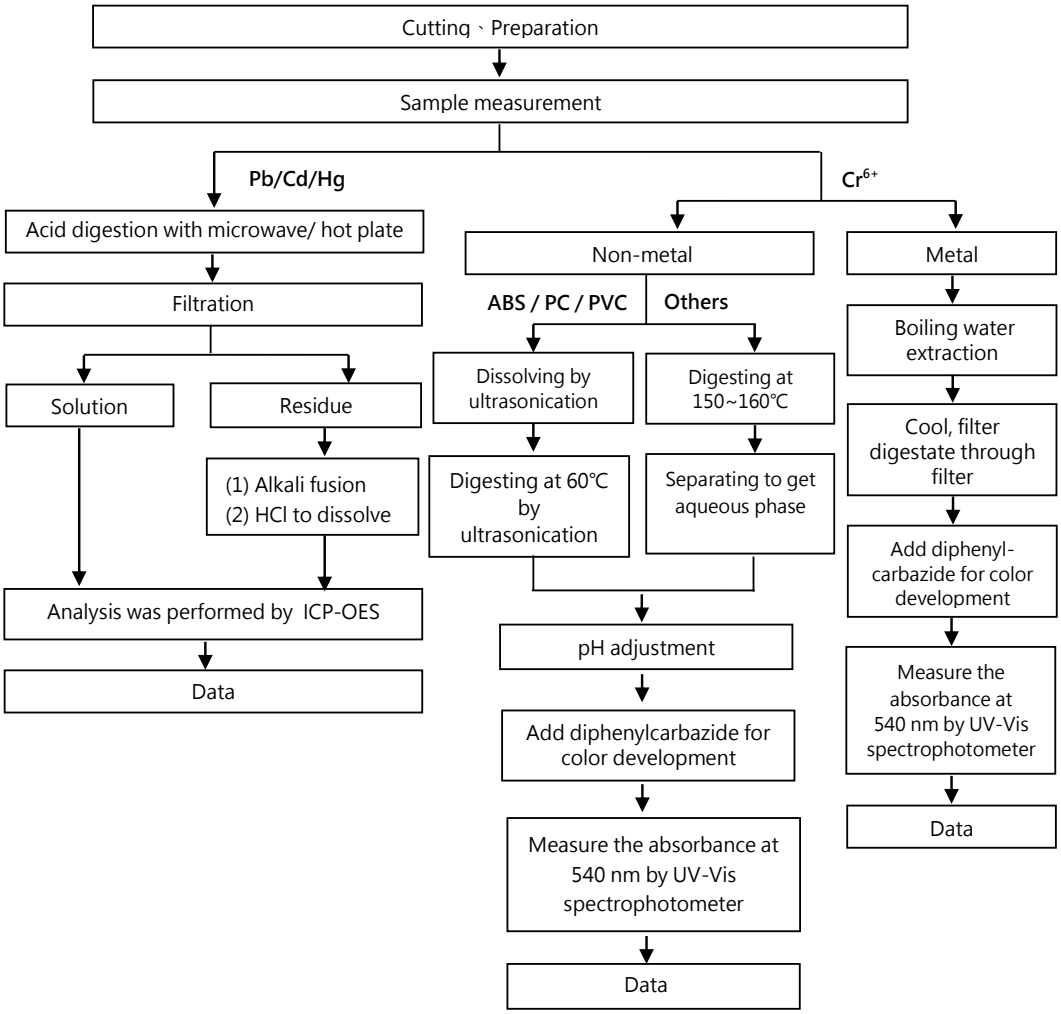
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DEXERIALS CORPORATION
1724 SHIMOTSUBOYAMA, SHIMOTSUKE-SHI, TOCHIGI 323-0194, JAPAN

## Analytical flow chart of heavy metal

These samples were dissolved totally by pre-conditioning method according to below flow chart.

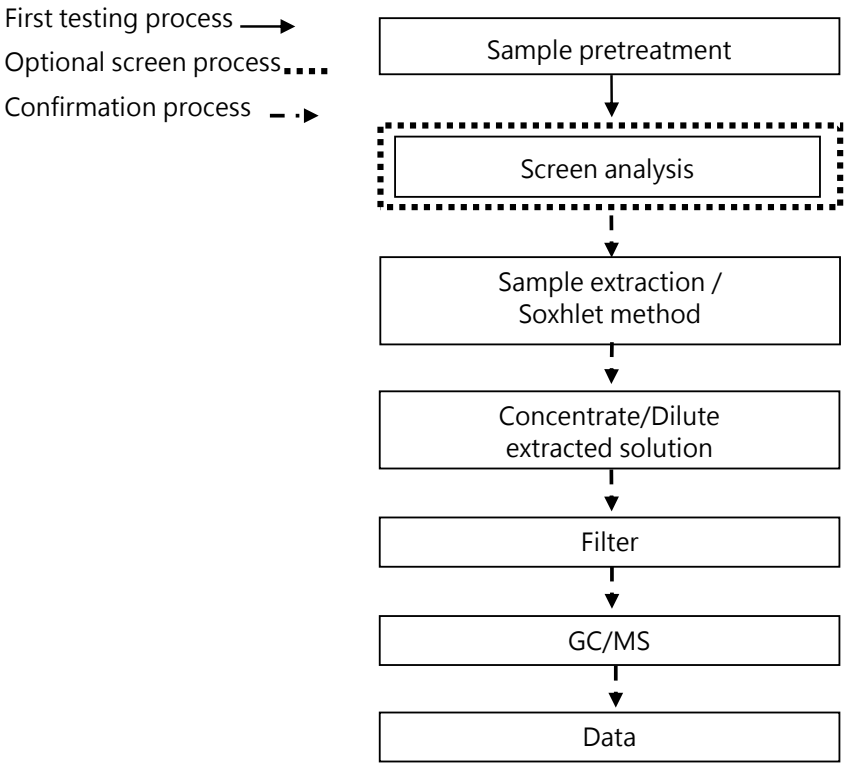
( $Cr^{6+}$ test method excluded )




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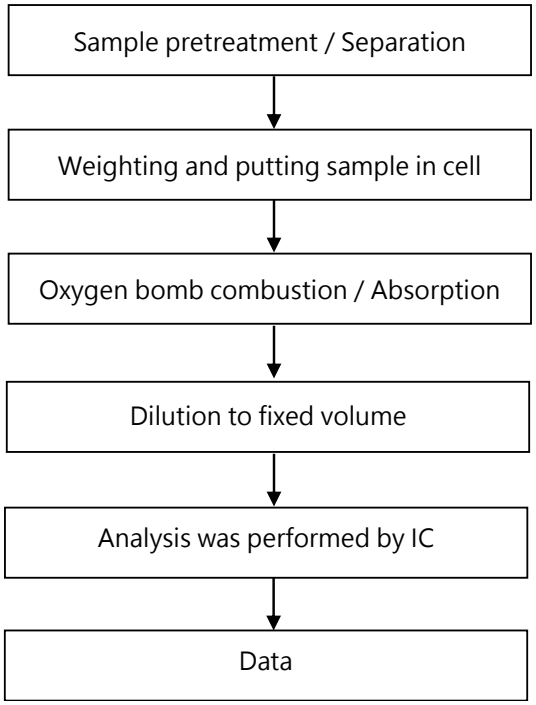
**Analytical flow chart – PBBs / PBDEs**




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**Analytical flow chart - Halogen**

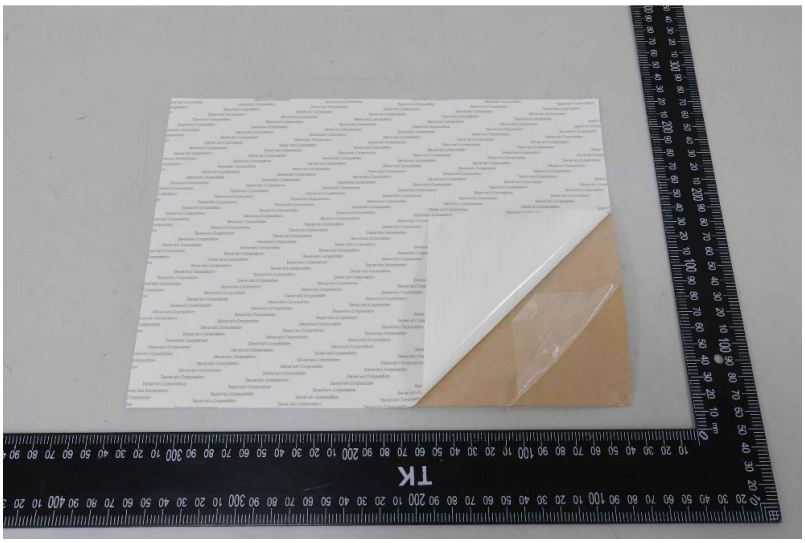



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DEXERIALS CORPORATION
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*** The tested sample / part is marked by an arrow if it's shown on the photo. ***

# ETR25603744



** End of Report **

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# 測試報告
# Test Report



INOAC CORPORATION
9-117,NASHINOKI,TAKETOYO-CHO,CHITA-GUN AICHI,JAPAN 470-2309 TEL:+81-569-74-1811

**以下測試樣品係由申請廠商所提供及確認 (The following sample(s) was/were submitted and identified by the applicant as)：**

| | | |
|---|---|---|
| 送樣廠商(Sample Submitted By) | : | INOAC CORPORATION |
| 樣品名稱(Sample Name) | : | SR-S/PET TYPE |
| 樣品型號(Style/Item No.) | : | SR-S-24P, SR-S-32P, SR-S-40P, SR-S-48P, SR-S-70P |

==========

| | | |
|---|---|---|
| 收件日(Sample Receiving Date) | : | 29-Apr-2025 |
| 測試期間(Testing Period) | : | 29-Apr-2025 to 09-May-2025 |

**測試需求(Test Requested)** : 依據客戶指定，測試鹵素-氟、氯、溴、碘。 (As specified by client, to test Halogen-Fluorine, Chlorine, Bromine, Iodine in the submitted sample.)

**測試結果(Test Results)** : 請參閱下一頁 (Please refer to following pages).

Troy Chang / Department Manager
Signed for and on behalf of
SGS TAIWAN LTD.
Chemical Laboratory - Taipei

PIN CODE: 3C1E914C

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# 測試報告
# Test Report



INOAC CORPORATION
9-117,NASHINOKI,TAKETOYO-CHO,CHITA-GUN AICHI,JAPAN 470-2309 TEL:+81-569-74-1811

**測試部位敘述 (Test Part Description)**

No.1 : 黑色片狀 (BLACK SHEET)

**測試結果 (Test Results)**

| 測試項目 (Test Items) | 測試方法 (Method) | 單位 (Unit) | MDL | 結果 (Result) |
|---|---|---|---|---|
| | | | | No.1 |
| 氟 (F) (Fluorine (F)) (CAS No.: 14762-94-8) | 參考BS EN 14582: 2016，以離子層析儀分析。(With reference to BS EN 14582: 2016, analysis was performed by IC.) | mg/kg | 50 | n.d. |
| 氯 (Cl) (Chlorine (Cl)) (CAS No.: 22537-15-1) | 參考BS EN 14582: 2016，以離子層析儀分析。(With reference to BS EN 14582: 2016, analysis was performed by IC.) | mg/kg | 50 | 112 |
| 溴 (Br) (Bromine (Br)) (CAS No.: 10097-32-2) | 參考BS EN 14582: 2016，以離子層析儀分析。(With reference to BS EN 14582: 2016, analysis was performed by IC.) | mg/kg | 50 | n.d. |
| 碘 (I) (Iodine (I)) (CAS No.: 14362-44-8) | 參考BS EN 14582: 2016，以離子層析儀分析。(With reference to BS EN 14582: 2016, analysis was performed by IC.) | mg/kg | 50 | n.d. |

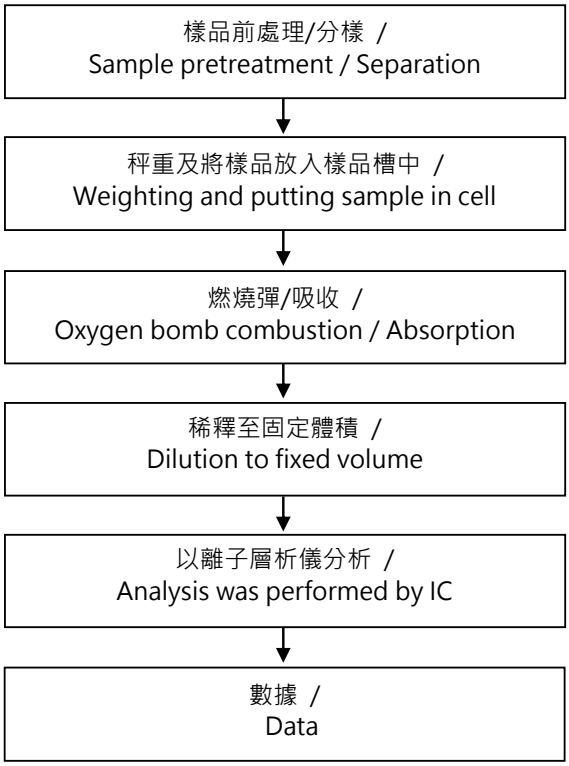
**備註(Note)：**

1. mg/kg = ppm；0.1wt% = 0.1% = 1000ppm
2. MDL = Method Detection Limit (方法偵測極限值)
3. n.d. = Not Detected (未檢出)；小於MDL / Less than MDL

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INOAC CORPORATION
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**鹵素分析流程圖 / Analytical flow chart - Halogen**




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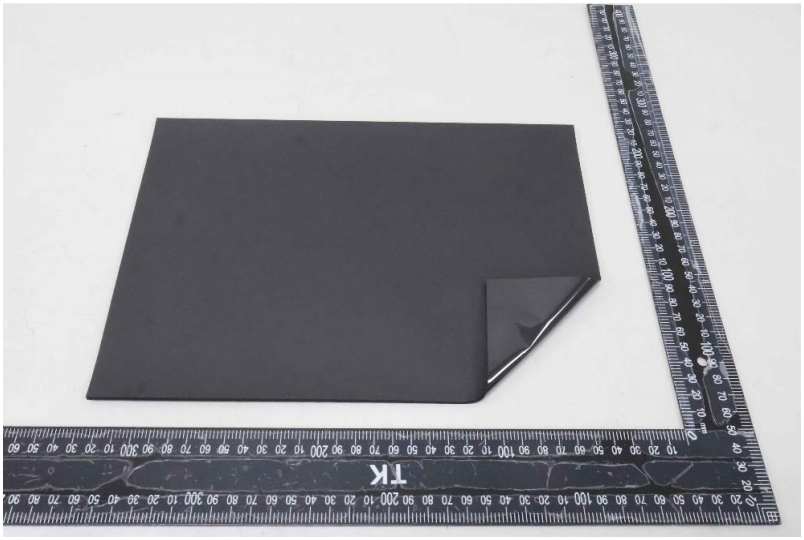
# 測試報告
# Test Report



INOAC CORPORATION
9-117,NASHINOKI,TAKETOYO-CHO,CHITA-GUN AICHI,JAPAN 470-2309 TEL:+81-569-74-1811

*** 照片中如有箭頭標示，則表示為實際檢測之樣品/部位. ***
**(The tested sample / part is marked by an arrow if it's shown on the photo.)**

**ETR25406720**



** 報告結尾 (End of Report) **

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# 測試報告
# Test Report

號碼(No.): ETR25406719　　日期(Date): 09-May-2025　　

INOAC CORPORATION
9-117,NASHINOKI,TAKETOYO-CHO,CHITA-GUN AICHI,JAPAN 470-2309 TEL:+81-569-74-1811

**以下測試樣品係由申請廠商所提供及確認 (The following sample(s) was/were submitted and identified by the applicant as)：**

| | | |
|---|---|---|
| 送樣廠商(Sample Submitted By) | : | INOAC CORPORATION |
| 樣品名稱(Sample Name) | : | SR-S/PET TYPE |
| 樣品型號(Style/Item No.) | : | SR-S-24P, SR-S-32P, SR-S-40P, SR-S-48P, SR-S-70P |

==========

| | | |
|---|---|---|
| 收件日(Sample Receiving Date) | : | 29-Apr-2025 |
| 測試期間(Testing Period) | : | 29-Apr-2025 to 09-May-2025 |

| | | |
|---|---|---|
| **測試需求(Test Requested)** | : | 依據客戶指定，參考RoHS 2011/65/EU Annex II及其修訂指令(EU) 2015/863測試鎘、鉛、汞、六價鉻、多溴聯苯、多溴聯苯醚, DBP, BBP, DEHP, DIBP。 (As specified by client, with reference to RoHS 2011/65/EU Annex II and amending Directive (EU) 2015/863 to determine Cadmium, Lead, Mercury, Cr(VI), PBBs, PBDEs, DBP, BBP, DEHP, DIBP contents in the submitted sample(s).) |
| **測試結果(Test Results)** | : | 請參閱下一頁 (Please refer to following pages.) |
| **結　　論(Conclusion)** | : | 根據客戶所提供的樣品，其鎘、鉛、汞、六價鉻、多溴聯苯、多溴聯苯醚, DBP, BBP, DEHP, DIBP的測試結果符合RoHS 2011/65/EU Annex II暨其修訂指令(EU) 2015/863之限值要求。 (Based on the performed tests on submitted sample(s), the test results of Cadmium, Lead, Mercury, Cr(VI), PBBs, PBDEs, DBP, BBP, DEHP, DIBP comply with the limits as set by RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU.) |

Troy Chang / Department Manager
Signed for and on behalf of
SGS TAIWAN LTD.
Chemical Laboratory - Taipei

PIN CODE: 682BAEAC

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# 測試報告
# Test Report



INOAC CORPORATION
9-117,NASHINOKI,TAKETOYO-CHO,CHITA-GUN AICHI,JAPAN 470-2309 TEL:+81-569-74-1811

**測試部位敘述 (Test Part Description)**

No.1 : 黑色片狀 (BLACK SHEET)

**測試結果 (Test Results)**

| 測試項目 (Test Items) | 測試方法 (Method) | 單位 (Unit) | MDL | 結果 (Result) No.1 | 限值 (Limit) |
|---|---|---|---|---|---|
| 鎘 (Cd) (Cadmium (Cd)) | 參考IEC 62321-5: 2013，以感應耦合電漿發射光譜儀分析。(With reference to IEC 62321-5: 2013, analysis was performed by ICP-OES.) | mg/kg | 2 | n.d. | 100 |
| 鉛 (Pb) (Lead (Pb)) | | mg/kg | 2 | n.d. | 1000 |
| 汞 (Hg) (Mercury (Hg)) | 參考IEC 62321-4: 2013+ AMD1: 2017，以感應耦合電漿發射光譜儀分析。(With reference to IEC 62321-4: 2013+ AMD1: 2017, analysis was performed by ICP-OES.) | mg/kg | 2 | n.d. | 1000 |
| 六價鉻 Cr(VI) (Hexavalent Chromium Cr(VI)) | 參考IEC 62321-7-2: 2017，以紫外光-可見光分光光度計分析。(With reference to IEC 62321-7-2: 2017, analysis was performed by UV-VIS.) | mg/kg | 8 | n.d. | 1000 |
| 一溴聯苯 (Monobromobiphenyl) | 參考IEC 62321-6: 2015，以氣相層析儀/質譜儀分析。(With reference to IEC 62321-6: 2015, analysis was performed by GC/MS.) | mg/kg | 5 | n.d. | - |
| 二溴聯苯 (Dibromobiphenyl) | | mg/kg | 5 | n.d. | - |
| 三溴聯苯 (Tribromobiphenyl) | | mg/kg | 5 | n.d. | - |
| 四溴聯苯 (Tetrabromobiphenyl) | | mg/kg | 5 | n.d. | - |
| 五溴聯苯 (Pentabromobiphenyl) | | mg/kg | 5 | n.d. | - |
| 六溴聯苯 (Hexabromobiphenyl) | | mg/kg | 5 | n.d. | - |
| 七溴聯苯 (Heptabromobiphenyl) | | mg/kg | 5 | n.d. | - |
| 八溴聯苯 (Octabromobiphenyl) | | mg/kg | 5 | n.d. | - |
| 九溴聯苯 (Nonabromobiphenyl) | | mg/kg | 5 | n.d. | - |
| 十溴聯苯 (Decabromobiphenyl) | | mg/kg | 5 | n.d. | - |
| **多溴聯苯總和 (Sum of PBBs)** | | mg/kg | - | n.d. | 1000 |

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| 測試項目 (Test Items) | 測試方法 (Method) | 單位 (Unit) | MDL | 結果 (Result) No.1 | 限值 (Limit) |
|---|---|---|---|---|---|
| 一溴聯苯醚 (Monobromodiphenyl ether) | 參考IEC 62321-6: 2015，以氣相層析儀/質譜儀分析。(With reference to IEC 62321-6: 2015, analysis was performed by GC/MS.) | mg/kg | 5 | n.d. | - |
| 二溴聯苯醚 (Dibromodiphenyl ether) | | mg/kg | 5 | n.d. | - |
| 三溴聯苯醚 (Tribromodiphenyl ether) | | mg/kg | 5 | n.d. | - |
| 四溴聯苯醚 (Tetrabromodiphenyl ether) | | mg/kg | 5 | n.d. | - |
| 五溴聯苯醚 (Pentabromodiphenyl ether) | | mg/kg | 5 | n.d. | - |
| 六溴聯苯醚 (Hexabromodiphenyl ether) | | mg/kg | 5 | n.d. | - |
| 七溴聯苯醚 (Heptabromodiphenyl ether) | | mg/kg | 5 | n.d. | - |
| 八溴聯苯醚 (Octabromodiphenyl ether) | | mg/kg | 5 | n.d. | - |
| 九溴聯苯醚 (Nonabromodiphenyl ether) | | mg/kg | 5 | n.d. | - |
| 十溴聯苯醚 (Decabromodiphenyl ether) | | mg/kg | 5 | n.d. | - |
| **多溴聯苯醚總和 (Sum of PBDEs)** | | mg/kg | - | n.d. | 1000 |
| 鄰苯二甲酸丁苯甲酯 (BBP) (Butyl benzyl phthalate (BBP)) | 參考IEC 62321-8: 2017，以氣相層析儀/質譜儀分析。(With reference to IEC 62321-8: 2017, analysis was performed by GC/MS.) | mg/kg | 50 | n.d. | 1000 |
| 鄰苯二甲酸二丁酯 (DBP) (Dibutyl phthalate (DBP)) | | mg/kg | 50 | n.d. | 1000 |
| 鄰苯二甲酸二異丁酯 (DIBP) (Diisobutyl phthalate (DIBP)) | | mg/kg | 50 | n.d. | 1000 |
| 鄰苯二甲酸二(2-乙基己基)酯 (DEHP) (Di-(2-ethylhexyl) phthalate (DEHP)) | | mg/kg | 50 | n.d. | 1000 |

**備註(Note)：**

1. mg/kg = ppm；0.1wt% = 0.1% = 1000ppm
2. MDL = Method Detection Limit (方法偵測極限值)
3. n.d. = Not Detected (未檢出)；小於MDL / Less than MDL
4. "-" = Not Regulated (無規格值)
5. 除非另有說明，參照ILAC-G8:09/2019決定規則，採用簡單允收規則之二分法(w=0)進行符合性判定；根據此規則，符合性結果之判定係以測試結果與限值做比較。(Unless otherwise stated , the decision rule for conformity reporting is based on Binary Statement for Simple Acceptance Rule (w=0) stated in ILAC-G8:09/2019. According to this rule, the judgement of conformity is based on the comparing test results with limits.)

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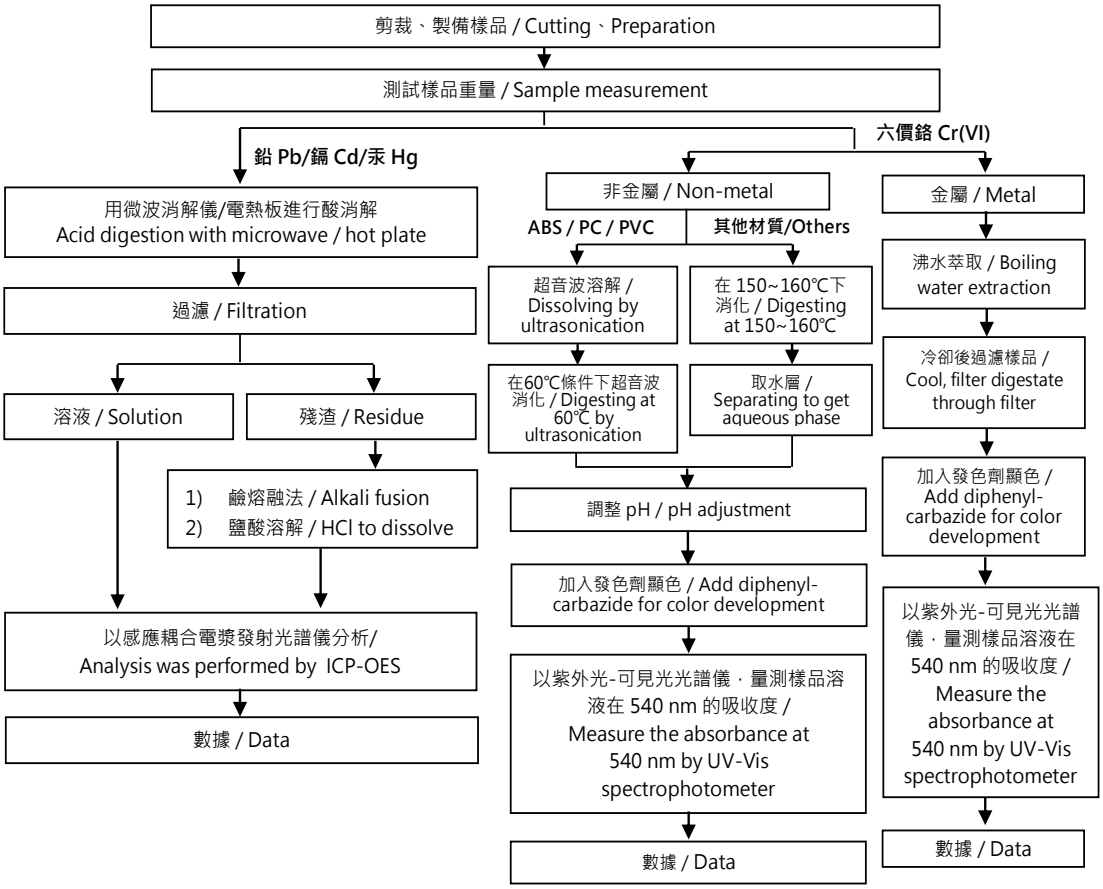
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**重金屬流程圖 / Analytical flow chart of heavy metal**

根據以下的流程圖之條件，樣品已完全溶解。（六價鉻測試方法除外）

These samples were dissolved totally by pre-conditioning method according to below flow chart.

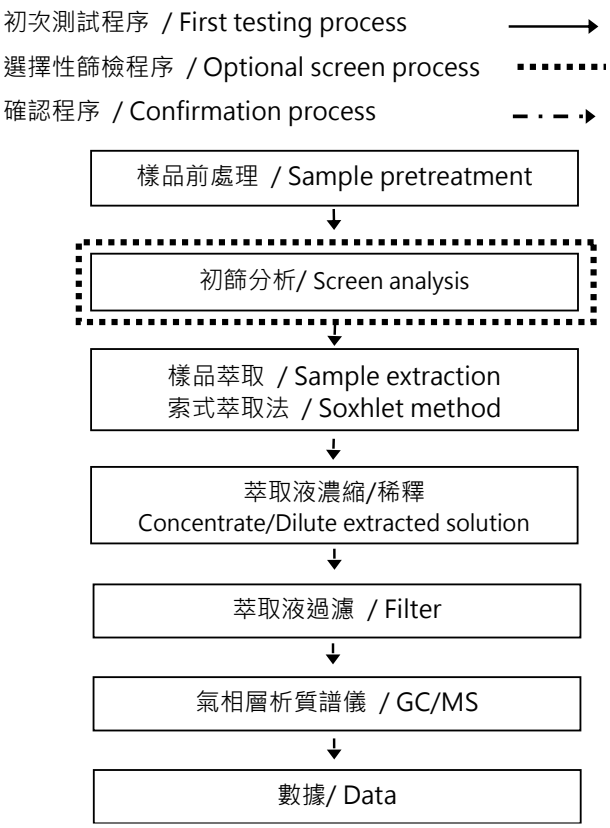
（$Cr^{6+}$ test method excluded）




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**多溴聯苯/多溴聯苯醚分析流程圖 / Analytical flow chart - PBBs/PBDEs**

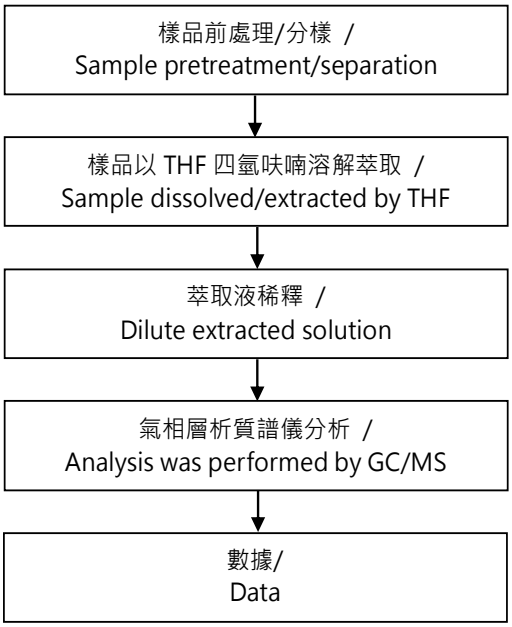



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**可塑劑分析流程圖 / Analytical flow chart - Phthalate**

**【測試方法/Test method: IEC 62321-8】**




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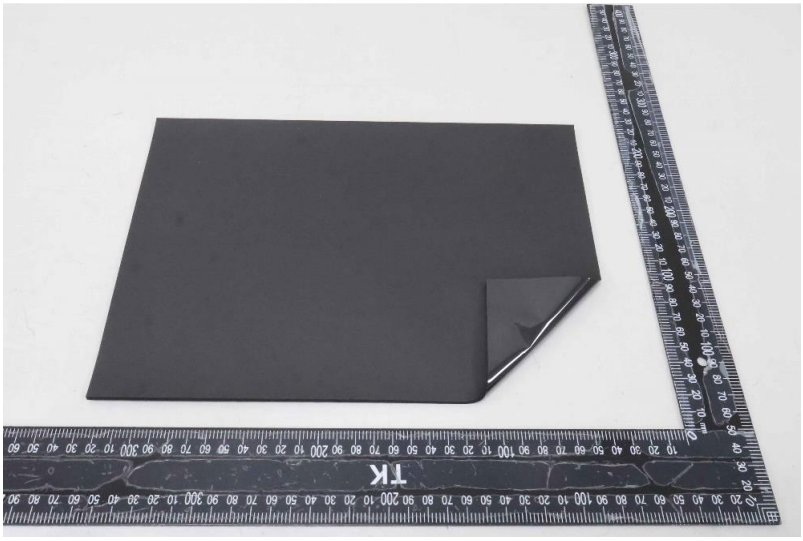
# 測試報告
# Test Report



INOAC CORPORATION
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*** 照片中如有箭頭標示，則表示為實際檢測之樣品/部位. ***
**(The tested sample / part is marked by an arrow if it's shown on the photo.)**

**ETR25406719**



** 報告結尾 (End of Report) **

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# 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

# 安全データシート

作成日： 2000年4月13日
改訂日： 2023年2月17日

## 1. 化学品及び会社情報

| | |
|---|---|
| 化学品の名称(製品名) | PORON SR-S-32P （色：黒） |
| 会社名 | 株式会社ロジャースイノアック |
| 住所 | 愛知県知多郡武豊町字梨子ノ木9-117 |
| 電話番号 | 0569-74-1811 |
| FAX番号 | 0569-74-1812 |

## 2. 危険有害性の要約

| | |
|---|---|
| 化学品のGHS分類 | 分類基準に該当しない |
| GHSラベル要素 | |
| 絵表示又はシンボル | 表示なし |
| 注意喚起語 | 表示なし |
| 危険有害性情報及び注意書き | 認められない |

## 3. 組成及び成分情報

化学物質・混合物の区別　混合物(成形品)

| 構成部位 | 化学名又は一般名 | 含有率(wt%) | CAS RN | 官報公示整理番号 | |
|---|---|---|---|---|---|
| | | | | 化審法 | 安衛法 |
| フォーム部 | ポリウレタン | 82 | - | 7-867 | - |
| | カーボンブラック | 0.69 | 1333-86-4 | 5-3328 | - |
| フィルム部 | ポリエチレンテレフタレート | 99< | 25038-59-9 | 7-1022 | - |

## 4. 応急処置

| | |
|---|---|
| 吸入した場合 | 高温加熱による溶融樹脂から発生するガスを多量に吸入した場合は、空気の新鮮な場所に移る。咳や呼吸困難などの症状が出た場合には直ちに医師の手当てを受ける。 |
| 皮膚に付着した場合 | 常温では無害。溶融物が皮膚に付着した場合は、多量の水をかけて十分に冷却し、直ちに医師の手当てを受ける。 |
| 眼に入った場合 | 清浄な水で洗浄する。異物感が目に残るようであれば、速やかに眼科医の手当てを受ける。 |
| 飲み込んだ場合 | 吐き出させる。異物感を感じるようであれば、医師の手当てを受ける。 |

## 5. 火災時の措置

| | |
|---|---|
| 適切な消火剤 | 多量の水、粉末・炭酸ガス・泡消火剤等の一般消火剤。 |
| 使ってはならない消火剤 | 情報なし |
| 火災時の特有の危険有害性 | 火災中に熱分解し、刺激性又は毒性のガスを発生する可能性がある。 |
| 特有の消火方法 | 一般的な消火剤にて風上から消火するのが望ましい。 |
| 保護具及び予防措置 | 消火活動を行う場合には、消火用防毒マスクや防火服等状況に応じた保護具を着用する。 |

## 6. 漏出時の措置

| | |
|---|---|
| 人体に対する注意事項 | 特になし |
| 保護具及び緊急時措置 | 特になし |
| 環境に対する注意事項 | 鳥類、魚類が摂取する恐れがあるので、河川及び海洋水域などに漏出させない。 |
| 封じ込め及び浄化の方法及び機材 | すくい取り、または掃き集めて適切な容器に回収する。 |

## 7. 取扱い及び保管上の注意

取扱い

| | |
|---|---|
| 技術的対策 | 適切な保護具を着用する。 |
| 安全取扱注意事項 | 可燃材であるので、取扱い時には火気の接近を避けるとともに、過度の衝撃、積み重ねは避けること。 |
| 接触回避 | 特になし |

保管

| | |
|---|---|
| 安全な保管条件 | 直射日光、高温多湿、水濡れを避けて屋内に保管する。 |
| 安全な容器包装材料 | 紙袋、段ボール箱等 |

## 8. ばく露防止及び保護措置

| | |
|---|---|
| 設備対策 | 加熱溶融等ガスが発生する場合は局所排気を設置する。全ての作業において、換気を行うことが望ましい。 |

保護具

| | |
|---|---|
| 呼吸用保護具 | 必要に応じて、保護マスク着用が望ましい。 |
| 手の保護具 | 必要に応じて、保護手袋着用が望ましい。 |
| 眼、顔面の保護具 | 必要に応じて、保護眼鏡着用が望ましい。 |
| 皮膚及び身体の保護具 | 必要に応じて、安全帽、安全靴及び保護服着用が望ましい。 |

## 9. 物理的及び化学的性質

| | |
|---|---|
| 物理状態 | 発泡体 |
| 色 | 黒 |
| 臭い | 無視できる程度の臭い |
| 沸点又は初留点及び沸点範囲 | 該当しない |
| 可燃性 | 可燃性有り |
| 爆発下限界及び爆発上限界/可燃限界 | データなし |
| 引火点 | データなし |
| 自然発火点 | データなし |
| 分解温度 | データなし |
| pH | 該当しない |
| 動粘性率 | データなし |

| | |
|---|---|
| 蒸気圧 | データなし |
| 比重 | 0.32　(フォーム部) |
| 相対ガス密度 | データなし |
| 粒子特性 | データなし |

## 10. 安定性及び反応性

| | |
|---|---|
| 反応性 | 特になし |
| 化学的安定性 | 常温、常圧での取扱いにおいては安定。 |
| 危険有害反応可能性 | データなし |
| 避けるべき条件 | データなし |
| 混触危険物質 | 特になし |
| 危険有害な分解生成物 | データなし |

## 11. 有害性情報

| | |
|---|---|
| 急性毒性 | データなし |
| 皮膚腐食性/刺激性 | データなし |
| 眼に対する重篤な損傷性/眼刺激性 | データなし |
| 呼吸器感作性又は皮膚感作性 | データなし |
| 生殖細胞変異原性 | データなし |
| 発がん性 | データなし |
| 生殖毒性 | データなし |
| 特定標的臓器毒性(単回ばく露) | データなし |
| 特定標的臓器毒性(反復ばく露) | データなし |
| 誤えん有害性 | データなし |

## 12. 環境影響情報

| | |
|---|---|
| 生態毒性 | データなし |
| 残留性・分解性 | データなし |
| 生態蓄積性 | データなし |
| 土壌中の移動性 | データなし |
| オゾン層への有害性 | データなし |

## 13. 廃棄上の注意

| | |
|---|---|
| 残余廃棄物 | 「廃棄物の処理及び清掃に関する法律(国、県、地方自治体の関係法令)」に則して、適切に処理する。 |
| 汚染容器及び包装 | 残余廃棄物と同様に処理する。 |

## 14. 輸送上の注意

輸送又は輸送手段に関する特別の安全対策

・包装が破れないように、衝撃・落下等の乱暴な取扱いを避ける。

・直射日光、高温多湿、水漏れ、過度の段積みを避けて荷崩れ防止を確実に行った上で輸送する。

・変形防止のため、上に重量物を載せ運搬、保管しない。

| | |
|---|---|
| 国内規制がある場合の規制情報 | 該当なし |

## 15. 適用法令

該当法令の名称及びその法令に基づく規制に関する情報

| | |
|---|---|
| 化学物質排出把握管理促進法(PRTR法) | 非該当 |
| 労働安全衛生法 | 非該当 |
| 毒物及び劇物取締法 | 非該当 |

その他の適用される法令の名称及びその法令に基づく規制に関する情報

| | |
|---|---|
| 外国為替及び外国貿易管理法 | 輸出貿易管理令　別表第1第16項 |
| 消防法 | 指定可燃物(合成樹脂類) |
| 廃棄物の処理及び清掃に関する法律 | 廃プラスチック類に該当 |

## 16. その他の情報

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