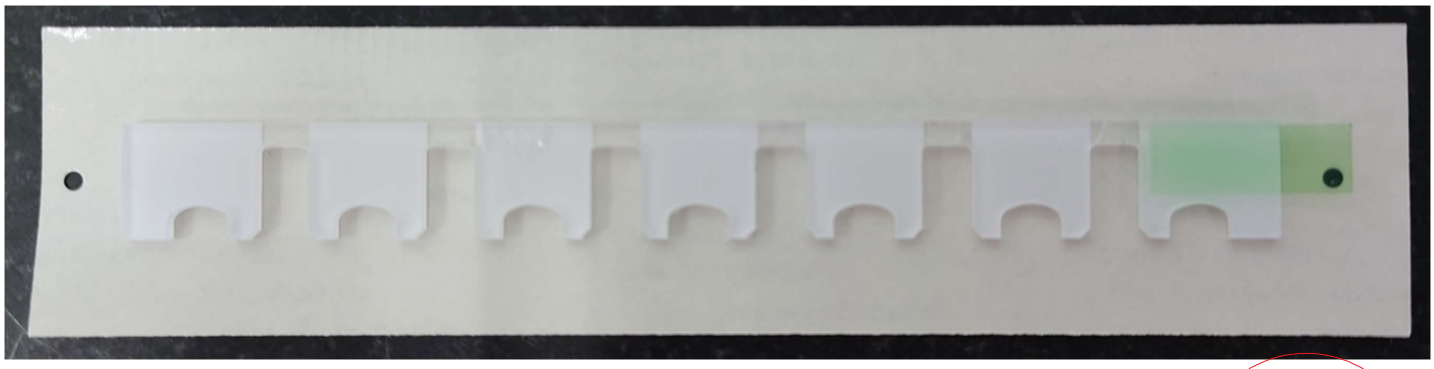


開發部
2023.07.27
發行

承　　認　　書

SPECIFICATION　FOR　APPROVAL

客戶:鈺緯科技開發股份有限公司

品名:透明 PC 印刷單背 T4000

規格:118mm*12mm*1.65T(含膠)

料號:3MD642PA010 (M3459)

開發部
2023.07.27
發行
鈺緯科技開發股份有限公司

主　管	審　查	製　作
游鈺衡	游鈺崧	王瀞融

俐　元　企　業　股　份　有　限　公　司

俐　誠　企　業　股　份　有　限　公　司

LI YUN　ENTERPRISE CO., LTD.

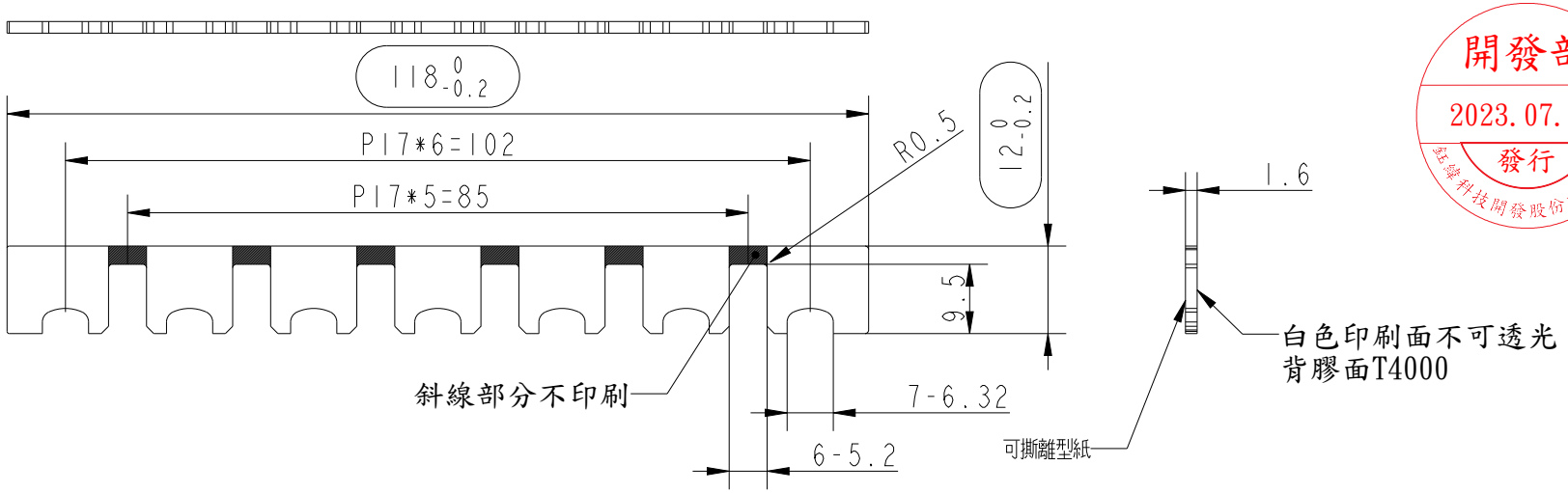
LI CHENG ENTERPRISE CO., LTD.

地　址：新　北　市　樹　林　區　三　龍　街　２０－１　號

電話:(02)8688-8680　　傳真:(02)8688-8678

中　華　民　國 112 年 07 月 13 日

REV.	DATE	DESCRIPTION	BY	APVD



開發部
2023.07.27
發行
鈺鎂科技開發股份有限公司

NOTES: UNLESS OTHERWISE SPECIFIED
1.MATERIAL : 透明PC t=1.6
FINISH: ADHESIVE (SONY T4000)
2.ALL PITCH DIMENSIONS WITHOUT ACCUMULATED.
3. ALL EXTERNAL SURFACES WITHOUT OIL STAINS, BURRS.
4.UNSPECIFIED DIMENSION TOLERANCE ARE ±0.2 mm.
5."O" :MAJOR DIMENSION
6.DIVA QC Inspection Document NO.:QWI-024

RANGE OF DIMENSION	TOLERANCE CLASS DESIGNATION f	V m	V c	THIRD ANGLE PROJECTION	UNITS:mm	SCALE: 1/1	SHEET: 1 OF 1	MODEL NO.: SC27820
					MATERIAL:		TREATMENT:	
UP TO 30	±0.10	±0.20	±0.50	DSGD by KimHuang	2022/11/29	PART NAME: KEY LENS (27",TRANSPARENT WHITE)		
ABOVE 30~120	±0.15	±0.30	±0.80	CHK by				
ABOVE 120~315	±0.20	±0.50	±1.20	APVD by	2023/07/26	PART NO.: 3MD642PA010	REV.	
ABOVE 315~1000	±0.30	±0.80	±2.00	APVD NO.: (M3459)	3D FILE NAME: SC27820-LENS	DIVA Laboratories ,Ltd.		
ANGLE ±1° (±1.75/100)								

俐元企業股份有限公司
俐誠企業股份有限公司

成品出廠檢驗表

表單編號：FM-42A

客戶名稱	鈺緯科技開發股份有限公司	訂單號碼				交貨數量		
料號	3MD642PA010 (M3459)	品名規格	118mm*12mm*1.65T(含膠)			檢驗日期		
序號	規　格	檢　驗　值					檢驗結果	
	依客戶圖面檢驗	1	2	3	4	5	OK	NG
1	1.65 T ±0.20 mm	1.74	1.76	1.73	1.75	1.74	✓	
2	118.00 +0.00 -0.20 mm	117.91	117.92	117.90	117.93	117.92	✓	
3	12.00 +0.00 -0.20 mm	11.92	11.93	11.91	11.90	11.93	✓	
4								
5								
6								
7								
8								
9								
10								

主管：　游閔智　　品管組長：黃惠珍　　品檢員：林素后

SABIC Innovative Plastics™

Lexan* 8010SHC Film

Product Datasheet

Description

Lexan* 8010SHC polycarbonate film offers excellent clarity in all thicknesses, high heat resistance, and superior dimensional stability for graphic art applications in a sheeted finished. Derived from one of the world's toughest polymers, Lexan* 8010SHC sheeted film also provides a high gloss surface finish while meeting additional requirements for added UV stability. Additional enhancements allow improved gauge control (see reverse for details).

Typical Property Values◆

Property	ASTM Test Method	Units (USCS)	Value	ISO Test Method	Units (SI)	Value
Mechanical						
Tensile Strength (0.7mm)						
@ Yield	ASTM D882	psi	8500	ISO 527	MPa	62
Ultimate	ASTM D882	psi	9000	ISO 527	MPa	65
Tensile Modulus (0.7mm)	ASTM D882	psi	223000	ISO 527	MPa	1860
Tensile Elongation at Break (0.7mm)	ASTM D882	%	100	ISO 527	%	100
Gardner Impact Strength (0.75mm)	ASTM D3029	ft-lb	23	ISO 6603-1	J	31
Tear Strength						
Initiation	ASTM D1004	lb/mil	1.4-1.8		kN/m	245
Propagation	ASTM D1922	g/mil	30-55		kN/m	10-20
Puncture Resistance (Dynatup)	ASTM D3763	ft-lb	9		J	12
Fold Endurance (MIT)						
0.010" (0.254 mm)	ASTM D2176-69	double folds	130			130
0.020" (0.508 mm)	ASTM D2176-69	double folds	35			35
Thermal						
Coefficient of Thermal Conductivity	ASTM D5470	Btu-in/(hr-ft^2 -°F)	1.35		W/m-K	0.2
Coefficient of Thermal Expansion	ASTM E831	(x10^{-5}/°F)	3.2	ISO 11359	(x10^{-5}/°C)	5.8
Specific Heat @ 40°F (4°C)	ASTM E1269	Btu/lb/°F	0.3		KJ/Kg-°C	1.25
Glass Transition Temperature	ASTM D3417/D3418	°F	307	ISO 11357	°C	153
Vicat Softening Temperature, B	ASTM 1525-00 modified	°F	323		°C	160
Heat Deflection Temp. by TMA at 1.8 MPa		°F	290	ISO 75 modified	°C	145
Shrinkage at 302°F (150°C/0.5h)	ASTM D1204	%	1.40		%	1.40
Brittleness Temperature	ASTM D746	°F	-211		°C	-135
Physical						
Density	ASTM D792	slug/ft^3	2.3	ISO 1183	kg/m^3	1200
Water Absorption, 24 hrs	ASTM D570	% change	0.35	ISO 62	% change	0.35
Surface Roughness (RMS)	ASME B46-01	-	NA			
Surface Energy	ASTM D5946-01	-	34			
Surface Tension	Dyne Pens	Dyne	38-40			
Pencil Hardness	ASTM D3363	-	B			
Taber Abrasion	ASTM D1044	Δ Haze	28			
Bayer Abrasion	Colts Lab Tes	Ratio	0.38			
Steel Wool Abrasion	Colts Lab Tes	Haze Gain	15.44			
Steel Wool Abrasion	Colts Lab Tes	Ratio	0.08			
Optical						
Refractive index @ 77°F (25 °C)	ASTM D542A	-	1.6			
Light Transmission	ASTM D1003	%	91			
Yellowness Index	ASTM D1925	%	0.8			
Haze	ASTM D1003	%	0.4			
Gloss over Flat Black @ 60°	ASTM D523-60	-	170	ISO 2813		170
UV% Transmission at 380nm	UV/Visual Spectroscopy	%	29			

- These are typical properties and are not intended for specification purposes. If minimum certifiable properties are required, please contact your local SABIC Innovative Plastics, Specialty Film & Sheet representative or the Quality Services Department. Reported values are based on 0.250 mm (0.010") thickness film and are tested at machine direction unless otherwise noted.

* Trademark of SABIC Innovative Plastics IP BV

SABIC Innovative Plastics™

Lexan* 8010SHC Film

Product Datasheet

Property	ASTM Test Method	Units (USCS)	Value	ISO Test Method	Units (SI)	Value
Electrical Dielectric Strength in oil, short time						
@ 72°F (23°C), 10mils (0.25mm)	ASTM D149-97a Method A	kv/mil	1.81	IEC 60243	kv/mm	71
Dielectric Constant						
@ 60 Hz	ASTM D150	-	2.32	IEC 60250	-	2.32
@ 1 MHz	ASTM D150	-	2.30	IEC 60250	-	2.30
Dissipation Factor						
@ 60 Hz	ASTM D150	-	0.001	IEC 60250	-	0.001
@ 1 MHz	ASTM D150	-	0.006	IEC 60250	-	0.006
Volume Resistivity	ASTM D257	Ω-cm	8.65E+16	IEC 60093	Ω-cm	8.65E+16
Surface Resistivity	ASTM D257	Ω/square	5.24E+15	IEC 60093	Ω/square	5.24E+15
Arc Resistance, Tungsten Electrodes	ASTM D495	s	70			

- These are typical properties and are not intended for specification purposes. If minimum certifiable properties are required, please contact your local SABIC Innovative Plastics, Specialty Film & Sheet representative or the Quality Services Department.
- Reported values are based on 0.250 mm (0.010") thickness film unless otherwise noted.

Lexan*

Polycarbonate Film

Manufacturing Specifications

Nominal Gauge Range	Min./Max Limit of Nominal
0.020 - 0.060" (0.500 – 1.500mm)	± 5%

* Trademark of SABIC Innovative Plastics IP BV

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Plaza 66, 17th Floor
200040 Shanghai, China
Tel. (86) 21 62881088
Fax. (86) 21 62880818

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Dexerials

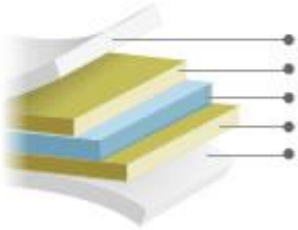
Technical Data Sheet

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

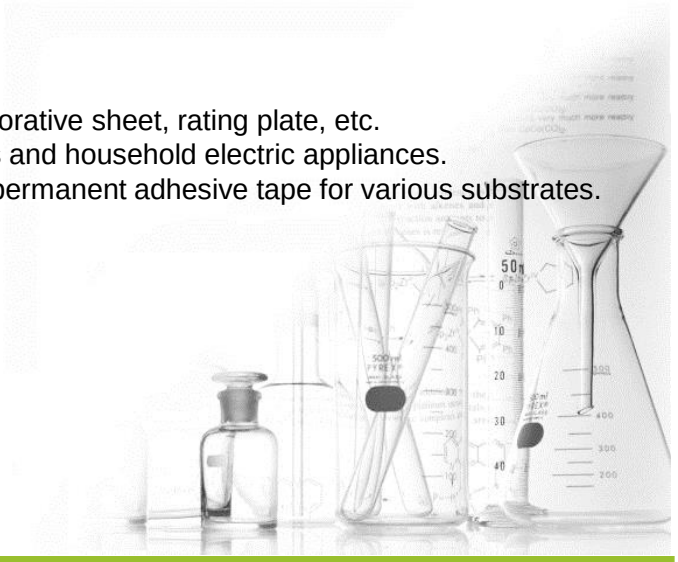


Product name	T4000	T4000W *3
Main component	Acrylic	Acrylic
Carrier	Nonwoven fabric	Nonwoven fabric
Color	Translucent *4	Translucent *4
Adhesive thickness (μm)	About 150	About 150
Release paper thickness (μm)	About 145	About 145+120
Bonding strength (N/20mm) *1	11.77	11.77
Bonding strength (N/20mm) *2	8.00	8.00
St'd size (width & length)	500mm × 50m 1020mm × 50m	500mm × 50m 1020mm × 50m

*1 180° peeling strength / substrate : stainless steel SUS304 (surface is polished by #280 sandpaper)
*2 180° peeling strength / substrate : stainless steel SUS304BA
*3 T4000W/T4000BW is with both side release paper.
*4 T4000B/T4000BW is black type.

Suitable use

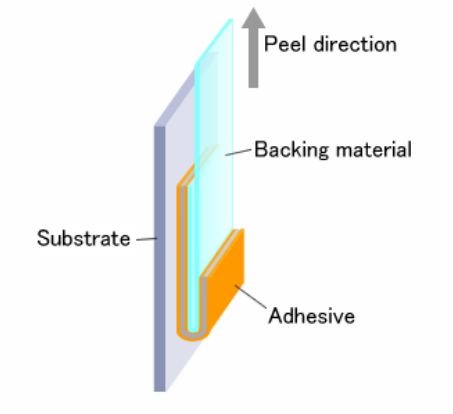
■ T4000 is most suitable for the adhesion to surface decorative sheet, rating plate, etc. Made of metal and plastic material for the automobiles and household electric appliances. T4000 is recommendable for use as a double coated permanent adhesive tape for various substrates.



[Remarks]
*The above values are sample observed values, not the guaranteed performance.

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

＜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]



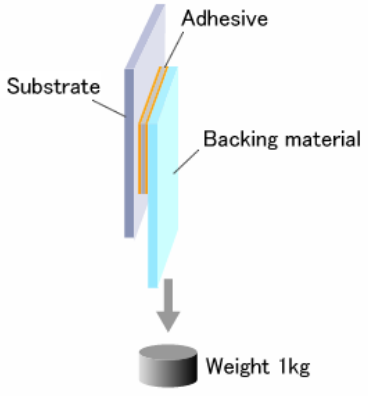
＜180° peeling strength test＞

＜Results＞ (N/20mm)

Substrate	AL	ABS	Acrylic	PC	CR	NR
180° peeling strength	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
(surface is polished by #280 sandpaper)
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＞

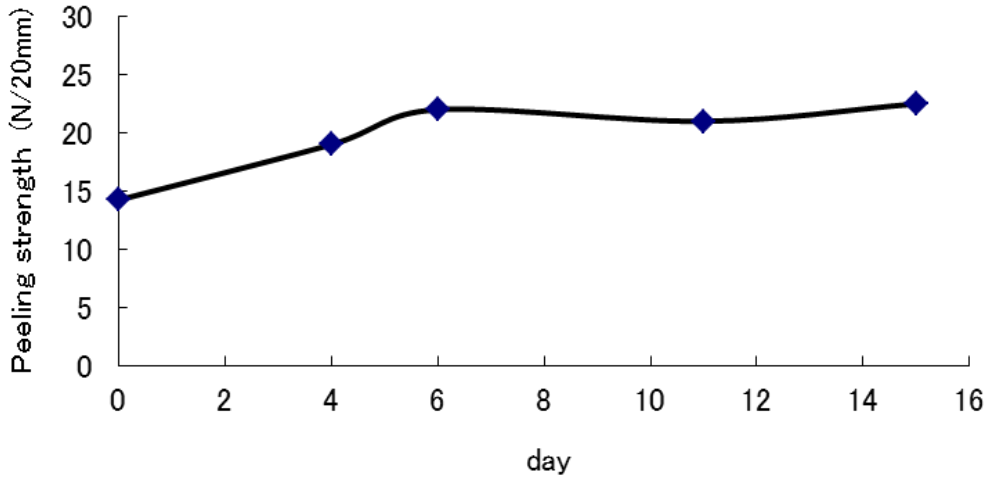
＜Results＞

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



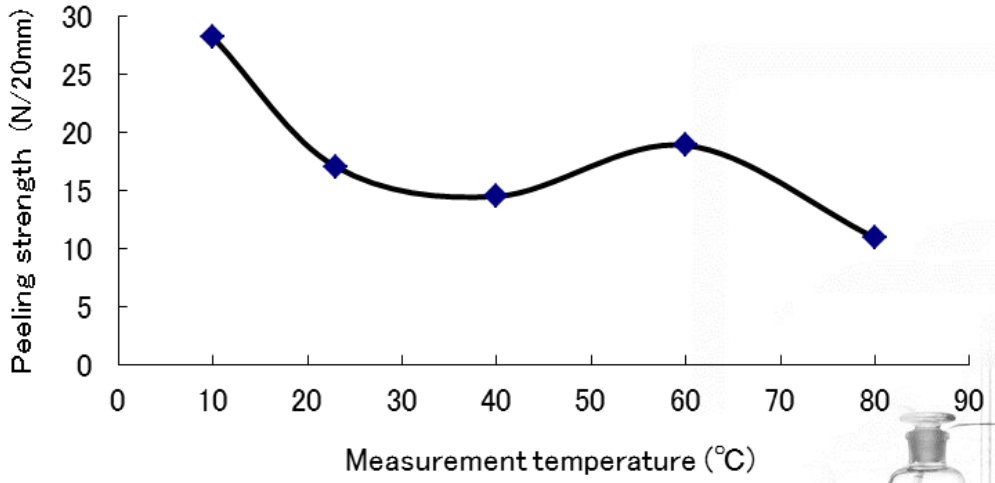
3. Reliability of bonding strength (180° peeling)

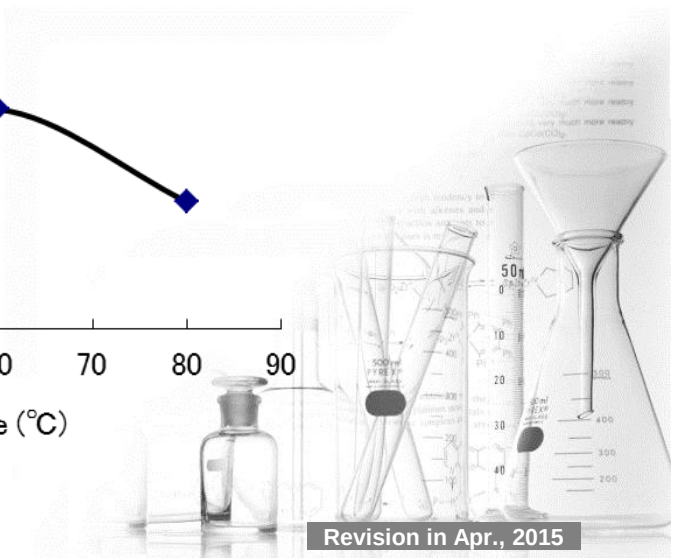
＜Test piece condition＞
Substrate：：Stainless steel SUS304 (surface is polished by #280 sandpaper)
Tape width ：20mm
Bonding condition：One stroke with 2-kg roller
Peeling speed：300mm/min
Backing material：25μmPET
[Leave the substrate for one hour at room temperature and aging at 70 °C condition]



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

＜Test piece condition＞
Substrate：Stainless steel plate SUS304 (surface is polished by #280 sandpaper)
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]





Revision in Apr., 2015

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
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2023/4/18

明輝化工實業有限公司
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新北市土城區大安路138巷32號
No.32, Ln.138, Da'an Rd., Thcheng Dist., New Taipei City
23673, Taiwan
TEL : (02) 2269 - 2527
FAX : (02) 2269 - 1802

PC 系列油墨

特性

✓ 印刷作業性優良，可進行精細印刷。
✓ 各色光澤均勻、細膩，特殊油墨遮蔽性高。
✓ 黏度低相溶性好，可節省調色時間。
✓ 調色安定性優，置久色差變化不大。

適用範圍

PC 底材、PVC 底材、ABS 底材、壓克力底材、射出底材。

使用方式

印刷前添加慢乾或快乾溶劑稀釋，比例為 10-20 %。

乾燥方式

70 ℃、15 分鐘（如後面需上背膠，需再放置 6 小時以上）
25 ℃、8-12 小時

皮膜物性

PC-W1 白油墨以 300 目之網版印刷至 PC 底材，以 70 ℃、120 秒乾燥後，室溫下靜置一天後進行試驗

試驗項目	試驗方法	結果
PC 密著性	十字錯紋膠帶剝離試驗	100/100 合格
PC 系列油墨屬於背面印刷，故未進行以下測試		
硬度	利百代 4H 硬度鉛筆	未測試
耐酒精性	以 99.5%酒精摩擦 50 次	未測試
耐鹼性	5%NaOH 水溶液中靜置 48 小時	未測試
耐酸性	5%H_2SO_4 水溶液中靜置 48 小時	未測試
耐摩擦性	以橡皮擦（Pentel 牌）摩擦 行程 70mm，往復 500 次	未測試

標準色與包裝

標準色 18 色，透明油 2 種，螢光色 6 色，金色 8 色，銀色 11 色，珍珠兩色，1-5 kg 裝。

注意事項　　依印刷面積大小及遮光需求，有乾燥速度不同的白色、黑色、其他色、銀色各種規格。

SAFETY DATA SHEET
Asia Pacific GHS Format

Print date: 25-Oct-2012 *Revision Number: 4* *Revision date: 25-Oct-2012*

1. IDENTIFICATION OF THE SUBSTANCE AND COMPANY

Trademark:	LEXAN* Film
Product Name:	8010MC -112 -PGNA
Product Description:	Poly (bisphenol-A-carbonate) [CASRN 111211-39-3] Sheet or Film
Product Type:	Commercial Product
Recommended use:	May be used as received, processed or thermoformed to produce other articles, or as a component of other industrial products.
Company:	SABIC Innovative Plastics Japan LLC. Tokyo Club Building, 2-6 3Chome Kasumigaseki, Chiyoda-Ku Tokyo, 100-0013 Japan SABIC Innovative Plastics (China) Ltd.or SABIC Innovative Plastics International Trading Shanghai Ltd 16F,Plaza 66,No 1266 Nanjing Rd(W),Shanghai 200040 China(Contact address) SABIC Innovative Plastics Korea, Ltd. Donghoon Bldg, 20fl, 702-19, Yeoksam-Dong, Kangnam-Ku, Seoul, Korea SABIC Innovative Plastics Singapore Pte Ltd 23, Benoi Road, 629895 Singapore SABIC Innovative Plastics (Thailand) Co. Ltd 64/22 Moo 4 Tumbol Pluak Daeng, Amphur Pluak Daeng,Rayong 21140 Thailand Sabic Innivative Plastics India Ltd. Plastics Avenue, P.O. Jawaharnagar,District Vadodara 391320 India SABIC Innovative Plastics Taiwan Holding Limited, Room B,7F,No. 8,Min-Sheng E. Rd. Sec. 3,Taipei City 10480 Taiwan
Manufacturer:	SABIC Innovative Plastics China Co. Ltd. No: 1 Plastics Avenue, P.C. 511548 Western Ind. District, Nansha ETDZ, Pan Yu, Guanndong China
Emergency Telephone Number:	Japan: +(81)-3-3593-4735 China: +86 532 83889090,+86 20 84980148 Singapore: +(65)-6210 4199 Korea: +(82)-2-510-6546 Thailand: +(66)-22312323-4 ext. 46, +(66)-38927000 ext. 7026 India: +(91)-265 3068554
Emergency Transportation/CHEMTREC (24 HOUR):	800 424-9300 (USA) +1 703-527-3887 (globally, outside USA)
E-mail:	Asiaproductinquiries@sabic-ip.com
Website Address:	**www.sabic-ip.com**

2. HAZARDS IDENTIFICATION

This product consists primarily of high molecular weight polymers which are not expected to be hazardous. According to UN Purple Book (special rules for Articles), this product is not classified for GHS and does not require a GHS label.

EMERGENCY OVERVIEW:

- Plastic film or sheet
- Can burn in a fire creating dense, toxic smoke
- Molten plastic can cause severe thermal burns
- Fumes produced during melt processing may cause eye, skin, and respiratory tract irritation. Severe over-exposure may result in nausea, headache, chills, and fever. See below for additional effects.
- Secondary operations, such as grinding, sanding, or sawing can produce dust which may present an explosion or respiratory hazard.

HMIS Rating **Health:** 0 **Flammability:** 1 **Reactivity:** 0

Skin Contact:	Not likely to cause irritation
Eye Contact:	Resin particles, like other inert materials, are mechanically irritating to eyes
Inhalation:	Inhalation unlikely due to physical form
Ingestion:	Ingestion unlikely due to physical form
Other Information:	Cool skin rapidly with cold water after contact with molten material Heating can release hazardous gases Hazardous fumes can also occur in post-processing operations

Chronic/Carcinogenic Information

Chronic Toxicity:	There are no toxicological hazards associated with this product.
Processing Issues:	Processing vapors may cause irritation to the eyes, skin, and respiratory tract. In cases of severe exposure, nausea and headache can also occur. Grease-like processing vapor condensates on ventilation ductwork, molds, and other surfaces can cause irritation and injury to skin..
Aggravated Medical Conditions:	MEDICAL RESTRICTIONS: There are no known health effects aggravated by exposure to this product. However, certain sensitive individuals and individuals with respiratory impairments may be affected by exposure to components in the processing vapors..

3. COMPOSITION/INFORMATION ON INGREDIENTS

Product Type Article

If present, components listed above are physical or health hazards as defined in the Hazard Communication Standard. The quantities represent typical or average values for the materials shown. Additional compositional data are provided in Section 15, REGULATORY INFORMATION.

4. FIRST AID MEASURES

If Inhalation:	Move to fresh air in case of accidental inhalation of fumes from overheating or combustion. If symptoms persist, call a physician.
On skin contact:	For hot product, immediately immerse in or flush affected area with large amounts of cold water to dissipate heat. Cover with clean cotton sheeting or gauze and get prompt medical attention.
On contact with eyes:	Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. If eye irritation persists, consult a specialist.

On ingestion:	No hazards which require special first aid measures.
Precautions:	Processing vapors inhalation may be irritating to the respiratory tract. If symptoms are experienced remove victim from the source of contamination or move victim to fresh air and obtain medical advice.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media:	Use dry chemical, CO2, water spray or "alcohol" foam. Water is the best extinguishing medium. Carbon dioxide and dry chemical are not generally recommended because their lack of cooling capacity may permit re-ignition on larger resin fires (blobs, drools, etc.).
Unsuitable Extinguishing Media for Safety Reasons:	Do not use a solid water stream as it may scatter and spread fire.
Hazards from Combustion Products:	Fire will produce dense black smoke containing hazardous combustion products, carbon oxides, hydrocarbon fragments.
Specific Hazards:	Take precautionary measures against static discharges. Thermal decomposition can lead to release of irritating gases and vapors. Dust formed by operations such as cutting or grinding may form an explosive mixture in air.
Special Protective Equipment for Firefighters:	In the event of fire, wear self-contained breathing apparatus.
Exposure hazards:	Do not release chemically contaminated water into drains, soil or surface water. Sufficient measures must be taken to retain the water used for extinguishing. Dispose of contaminated water and soil according to local regulations.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions:	See section 8.
Environmental Precautions:	Dispose of in compliance with all Federal, state and local laws and regulations. .
Clean up:	Sweep up and shovel into suitable containers for disposal. Do not create a powder cloud by using a brush or compressed air.

7. HANDLING AND STORAGE

Handling:	Handle in accordance with good industrial hygiene and safety practice. Provide for appropriate exhaust ventilation and dust collection at machinery. Avoid dust formation. All metal parts of the mixing and processing equipment must be earthed.
Storage:	Keep away from heat sources and sources of ignition.
Incompatible Products:	Strong acids, strong oxidizing agents.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure limits:	No components with information, unless noted below
SABIC limit	**SABIC Recommended Exposure Limits have been established for certain chemicals.*

Engineering Measures to Reduce Exposure:	Handle in accordance with good industrial hygiene and safety practice. Processing fume condensate may be a fire hazard and toxic; remove periodically from exhaust hoods, ductwork, and other surfaces using appropriate personal protection.
Hand Protection:	Protective gloves should be worn
Eye Protection:	Safety glasses.
Respiratory Protection:	When using this product at elevated temperatures, implement engineering systems, administrative controls or a respiratory protection program (including a respirator approved for protection from organic vapors, acid, gases, and particulate matter) if processing vapors are not adequately controlled or operators experience symptoms of overexposure. If dust or powder are produced from secondary operations such as sawing or grinding, use a respirator approved for protection from dust.
Body Protection:	Long sleeved clothing
Hygiene Measures:	When using, do not eat, drink or smoke.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Solid
Appearance:	Sheet or film
Color:	Same as color code
Odor:	None or slight
Melting point/range:	This product does not exhibit a sharp melting point but softens gradually over a wide range of temperatures.
Flash Point:	Not applicable
Explosive Limits	
upper:	Not applicable
lower:	Not applicable
Vapor Pressure:	Negligible
Specific gravity:	>1; (water = 1)
Water Solubility:	Insoluble
Autoignition Temperature:	Not applicable
Explosive Properties:	Dust may form explosive mixture in air
Oxidising Properties:	Not oxidising
VOC content (%):	Negligible

10. STABILITY AND REACTIVITY

Reactivity:	Not reactive under recommended conditions of handling, storage, processing and use.
Stability:	Stable.
Polymerization:	Hazardous polymerization does not occur.
Conditions to Avoid:	Do not exceed maximum temperatures recommended in the product literature.
Materials to Avoid:	May react with strong oxidizing agents, strong acids or other highly reactive chemicals.
Hazardous Decomposition Products:	Process vapors under recommended processing conditions may include trace levels of hydrocarbons, phenols, alkylphenols, diarylcarbonates.

11. TOXICOLOGICAL INFORMATION

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Product Information:

LD50/oral/rat: >5000 mg/kg (estimated)
LD50/dermal/rabbit: >2000 mg/kg estimated

Component Information:

Component Information Text: No data available

Other information on acute toxicity: There are no toxicological hazards associated with this product

Sensitization

Respiratory Sensitization: Not classified

Irritation:

Eye Irritation: no data available

Subchronic Toxicity (28 days)

Repeated Oral Toxicity(28d): No information available
Repeated Dermal Toxicity(28d): No Information available
Subchronic Toxicity: No information available

Chronic Toxicity

Carcinogenicity: There are no known carcinogenic chemicals in this product except specifically mentioned below.
Mutagenic Effects: No data is available on the product itself
Reproductive Toxicity: No information available
Developmental Toxicity: No information available

Neurological effects: No information available

Specific Target Organ Toxicity(STOT)

Target Organ Effects: Not established

Aspiration Hazard

Aspiration Hazard Statement: No data available

Other relevant toxicity information

IARC: Not listed
OSHA: Not regulated
NTP: Not tested

Remarks: The toxicological data has been taken from products of similar composition.

Special Studies: Processing fumes from similar products are not considered toxic. In acute inhalation tests, laboratory rats were exposed to processing fumes at concentrations exaggerating those that would likely occur in workplace situations. No deaths or signs of toxicity, except transient irritancy in some cases, were noted during the 6 hour fume exposure tests. There were no distinct or consistent treatment related tissue or organ changes noted in gross necropsies

12. ECOLOGICAL INFORMATION

Ecotoxicity

Component Information:
Product Information:

Persistence and Degradability

Biodegradation:	Not inherently biodegradable
Partition coefficient (n-octanol/water)	Not established

Bioaccumulative Potential:

Bioaccumulation:	Not established

Mobility

Mobility:	May be separated mechanically in waste water plants.

Other Adverse Effects

Ecotoxicity Effects:	Do not flush into surface water or sanitary sewer system.

13. DISPOSAL CONSIDERATIONS

Waste from residues / unused products:	Where possible recycling is preferred to disposal or incineration. Dispose of in accordance with local regulations.
Contaminated Packaging:	Empty containers should be transported/delivered using a registered waste carrier for local recycling or waste disposal.
Waste Disposal:	Recycling is encouraged. Landfill or incinerate in accordance with federal, state and local requirements. Collected processing vapor condensates and incinerator ash should be tested to determine waste classification.

14. TRANSPORT INFORMATION

IMO / IMDG	Not regulated
ICAO	Not regulated
IATA-DGR	Not regulated
DOT	Not regulated
ADR/RID	Not regulated
ADR	Not regulated
ADN	Not regulated

15. REGULATORY INFORMATION

International Inventories:
Film and sheet products are articles, exempt from registration or notification in those countries that have national chemical inventories.

CERCLA/SARA 311/312/313:
This product is a non-hazardous article and therefore not subject to the requirements of Title III of SARA (Emergency Planning and Community Right-To-Know Act).

Canada:
This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

WHMIS hazard class:
Non-controlled

California Proposition 65:
This product does not contain components known to the State of California to cause cancer and/or reproductive effects.

RoHS EU Directive 2002/95/EC:
This product complies with RoHS - it does not intentionally contain banned chemicals.

16. OTHER INFORMATION

LEXAN* Film is a trademark of SABIC Innovative Plastics IP BV

MSDS Scope:
China: Conforms to Chinese Regulation on the Control over Safety of Hazardous Chemicals (Decree No 591) and GHS standards GB15258,GB13698,GB/T16483 etc.
Japan: Conforms to Industrial Safety and Health Law, Japan (2006) and Industrial GHS Standards JIS Z7250, JIS Z7251
Korea: Conforms to Industrial Safety & Health Act, Ministry of Labor, Korea
Singapore: Conforms to Singapore workplace Safety and Health (WSH) Act, WSH Regulations, and GHS Standard 586
Taiwan: Conforms to Taiwan Rules on Hazard Communication and Labeling of Hazardous Substances, (Council of Labor Affairs, Taiwan) and GHS standards Z1051
This document is also applicable in other countries and regions.

Prepared by: Product Stewardship & Toxicology

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End of Material Safety Data Sheet

SAFETY DATA SHEET

Date Revised (7) : 11/06/2013
Date Prepared : 10/07/1999

SECTION 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product name : **T4000 (Pressure sensitive double sided tape)**
Manufacturer : Dexerials Corporation
Address : 12-3 Satsuki-cho, Kanuma-shi, Tochigi, 322-8502 Japan

Phone	Fax
+81-289-76-0225	+81-289-76-0299

Emergency phone
+81-289-76-0499

SECTION 2. COMPOSITION / INFORMATION ON INGREDIENTS

Structure (Thickness and wt. % of each structure)

1. Pressure sensitive adhesive	150 µm	(41 %)
2. Base material	※1	(7 %)
3. Release liner	145 µm	(52 %)

(※1:be included in adhesive layer)

Components (% Chemical component by WT.)

1. Pressure sensitive adhesive

Non-hazardous composition	CAS #	Contents
Tackifier	Trade Secret	20～30 %
Acrylic resin	Trade Secret	70～80 %

2. Base material

Non-hazardous composition	CAS #	Contents
Tissue Paper	N/A	100 %

3. Release liner

Non-hazardous composition	CAS #	Contents
Polyethylene laminated paper coated with silicone release agent	N/A	100 %

(Refer to section 8)

SECTION 3. HAZARDS IDENTIFICATION

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.

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

Flash point and auto ignition temperature

Flash point	:	No data.
Autoignition temperature	:	No data.

Extinguish media

Water spray, carbon dioxide, dry chemical powder or foam

Fire fighting 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 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

Tackifier	:	Not established by OSHA and ACGIH.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	Adhesive tape
Odor	:	Slight
Boiling point	:	Not applicable
Vapor pressure	:	Not applicable
Melting point	:	Not determined
Solubility in water	:	Insoluble in water
Specific gravity	:	Approx. 1.0

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, a bit of alkylphenol and formalin (possibility)

Hazardous polymerization

It will not occur.

SECTION 11. TOXICOLOGICAL INFORMATION

No information and data as product

As Tackifier

Toxicity data

LD_{50} > 2000 mg/Kg

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicological information

Unknown

Chemical fate information

Unknown

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal should be made in accordance with 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: Not applicable both List and Catch-all regulations.

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.

The end of SDS

安全資料表

一、化學品與廠商資料

化學品名稱:　PC系列白色油墨
其他名稱:-
建議用途及限制使用:網版油墨印刷
製造者、輸入者或供應者名稱電話:明輝化工實業有限公司 地址:新北市土城區大安路138巷32號 電話:(02)22692527
緊急聯絡電話:(02)22692527 傳真電話:(02)22691802

二、危害辨識資料

化學品危害分類:

易燃液體第4級
急毒性物質(吞食)第4級
急毒性物質(皮膚)第4級
急毒性物質(吸入)第4級
腐蝕/刺激皮膚物質第2級
嚴重損傷/刺激眼睛物質第1級
致癌物質第2級
特定標的器官系統毒性物質～單一暴露呼吸道刺激第3級

標示內容:



象徵符號:　驚嘆號、腐蝕、健康危害

警示語:　危險

危險警告訊息

H227 可燃液體
H302 吞食有害
H312 皮膚接觸有害
H332 吸入有害
H315 造成皮膚刺激
H318 造成嚴重眼睛損傷
H351 懷疑致癌
H335 可能造成呼吸系統刺激

危險防範措施

勿吸入氣體/煙氣/蒸氣/霧氣、只能使用於通風良好的地方、穿戴適當的防護衣物、手套、戴眼罩/護面罩

其他危害:

三、成分辨識資料

混合物:

化學性質:	
危害成分之中英文名稱	濃度或濃度範圍(成分百分比)
異佛爾酮 Isophorone (CAS No. 78-59-1)	35-40

樹脂 Resin (CAS No. 25767-39-9)	30-35
顏料 Pigment (CAS No. 13463-67-7)	35-40

四、急救措施

不同暴露途徑之急救方法:

吸入:

1.此物質是易燃的, 救援前先採取適當措施(如移除任何汙染源)。2.移走污染源或將患者移到空氣新鮮處。3.若呼吸停止立即由受訓過的人施以人工呼吸;若心跳停止施行心肺復甦術。4.立即就醫。

皮膚接觸:

1.立即以緩和的刷掉或吸掉多餘的化學品。2.用水和非磨砂性肥皂徹底緩和的清洗, 至少15 分鐘或直到汙染物去除。3.沖水時脫掉污染的衣服、鞋子以及皮飾品(如錶帶、皮帶)。4.若沖洗後仍有刺激感, 立即就醫。

眼睛接觸:

1.立即以緩和的刷掉或吸掉多餘的化學品。2.立即將眼皮撐開, 用緩和的流動的溫水沖洗污染的眼睛, 至少15分鐘或直到汙染源去除。3.立即就醫。

食入:

1.若患者即將喪失意識、已失去意識或痙攣, 不可經口餵食任何東西。2.若患者意識清楚, 讓其用水徹底漱口。3.不可催吐。4.給患者喝下240-300 毫升的水。5.若患者自發性嘔吐, 讓其身體向前傾以減低吸入危險, 並讓其漱口及反覆給水。6.立即就醫。

最重要症狀及危害效應:

該物質若被吸入肺部, 會導致肺部刺激(化學性支氣管炎)或死亡。

對急救人員之防護:

應穿著C級防護裝備在安全區實施急救。

對醫師之提示:

吞食時, 考慮洗胃、活性碳。

五、滅火措施

適用滅火劑:

化學乾粉、泡沫、二氧化碳

滅火時可能遭遇之特殊危害:

1.蒸氣比空氣重, 會傳播至遠處, 遇火源可能造成回火。2.液體會浮於水上, 而將火勢蔓延開。3.火場中可能釋出毒氣。4.火場中容器可能會爆炸。

特殊滅火程序:

1.以水霧冷卻暴露火場的貯槽或容器。2.以水霧滅火可能無效, 除非消防人員受過各種易燃液體之滅火訓練。3.如果溢漏未引燃, 噴水霧以分散蒸氣並保護試圖止漏的人員。4.噴水將外洩物沖離引燃源。5.消防人員必須配戴正壓空氣呼吸器(自攜式呼吸防護具)

消防人員之特殊防護設備:

配帶空氣呼吸器及防護手套、消防衣。

六、洩漏處理方法

個人應注意事項:

1.在污染區尚未完全清理乾淨前, 限制人員接近該區。2.確定清理工作是由受過訓練的人員負責。3.穿戴適當的個人防護裝備。(關於個人防護裝備請參照「八、暴露預防措施」)

環境注意事項:

1.對該區域進行通風換氣。2.撲滅或除去所有發火源。3.通知政府安全衛生與環保相關單位。

清理方法:

	1.不要碰觸外洩物。2.避免外洩物進入下水道或密閉的空間內。3.在安全許可的情形下，設法阻止或減少溢漏。4.用不會和外洩物反應的泥土、沙或類似穩定且不可燃的物質圍堵外洩物。5.少量洩漏時，用不會和外洩物反應之吸收劑吸收。以污染的吸收劑和外洩物具有同樣的危害性，須置於加蓋並標示的適當容器裡。用水沖洗溢漏區域。6.大量溢漏時：聯絡消防、緊急處理單位及供應商以尋求協助。

七、安全處置與儲存方法

處置：	
	1.此物質是易燃性和毒性液體，處置時工程控制應運轉及善用個人防護設備(關於個人防護裝備請參照「八、暴露預防措施」)；工作人員應受適當有關物質之危險性及安全使用法之訓練。2.除去所有發火源並遠離熱、可燃物及不相容物。3.工作區應有"禁止抽菸"標誌。4.液體會累積電荷，考慮額外之設計以增加電導性。如所有桶槽、轉裝容器和管線都要接地，接地時必須接觸到裸金屬，輸送操作中，應降低流速，增加操作時間，增加液體留在管線中之時間或低溫操作。5.當調配之操作不是在密閉系統進行時，確保調配的容器和接收的運送設備和容器要等電位連接。6.空的桶槽、容器和管線可能仍有具危害性的殘留物，未清理前不得從事任何焊接、切割、鑽孔或其它熱的工作進行。7.桶槽或貯存容器可充填惰性氣體以減少火災和爆炸的危險。8.作業場所使用不產生火花的通風系統，設備應為防爆型。9.保持走道和出口暢通無阻。10.貯存區和大量操作的區域，考慮安裝溢漏和火災偵測系統及適當的自動消防系統或足夠且可用的緊急處理裝置。11.作業避免產生霧滴或蒸氣，在通風良好的指定區內操作並採最小使用量，操作區與貯存區分開。12.不要與不相容物一起使用（如強氧化劑）以免增加火災和爆炸的危險。13.使用相容物質製成的貯存容器，分裝時小心不要噴灑出來。14.不要以空氣或惰性氣體將液體自容器中加壓而輸送出來。15.除非調配區以耐火結構隔離，否則不要在貯存區進行調配工作。16.使用經認可的易燃性液體貯存容器和調配設備。17.不要將受污染的液體倒回原貯存容器。18.容器要標示，不使用時保持緊密並避免堆積和受損。
儲存：	
	1.貯存在陰涼、乾燥、通風良好以及陽光無法直接照射的地方，遠離熱源、發火源及不相容物。2.遵循相關法規貯存與處理易燃性物質。3.門口設斜坡或門檻或挖溝槽使洩漏物可排放至安全的地方。4.貯存區應標示清楚，無障礙物並允許指定或受過訓的人員進入。5.貯存區與工作區應分開；遠離升降機、建築物、房間出口或主要通道貯存。6.貯存區附近應有適當的滅火劑和清理溢漏設備。7.檢查所有新進容器是否適當標示並無破損。8.限量貯存。9.以相容物質製成的貯存容器。10.空的容器應與貯存區分開。11.貯桶接地並與其它設備等電位連接。12.避免大量貯存於室內，儘可能貯存於隔離的防火建築。13.貯槽之排氣管應加裝火焰防止裝置。14.貯槽須為地面貯槽，底部整個區域應封住以防滲漏，周圍須有能圍堵整個容量之防液堤。

八、暴露預防措施

工程控制：	
	1.單獨使用不產生火花、接地的通風系統。2.排氣口直接通到室外，並採取保護環境的重要措施。3.供給充分新鮮空氣以補充排氣系統抽出的空氣。
控制參數：	
	異佛爾酮 Isophorone (CAS No. 78-59-1) 八小時日時量平均容許濃度：20 ppm 短時間時量平均容許濃度：- 最高容許濃度：- 生物指標：-
個人防護設備：	
‧呼吸防護：	
	1.750 ppm 以下：含有機蒸氣濾罐之化學濾罐式或動力型空氣淨化式呼吸防護具，供氧式呼吸防護具，全面型自攜式或供氣式呼吸防護具、含有機蒸氣濾毒罐之防毒面罩。2.未知濃度或 IDLH 情況：正壓全面型空氣呼吸器（自攜式呼吸防護具SCBA）或正壓全面型供氣式呼吸防護具與輔助型正壓空氣呼吸器（自攜式呼吸防護具SCBA）一起使用。3.逃生：含有機蒸氣濾罐之氣體面罩或逃生型空氣呼吸器（自攜式呼吸防護具SCBA）。
‧手部防護：	
	丁基橡膠、腈類橡膠、Viton、4H、CPF3、Responder 等材質的防滲手套。
‧眼睛防護：	
	1.化學安全護目鏡。2.面罩。

‧皮膚及身體防護: 1.連身式防護衣。2.工作鞋。3.工作區要有淋浴/沖眼設備。
衛生措施: -

九、物理及化學性質

外觀(物質狀態、顏色等): 不	氣味:淡香
嗅覺閾值: 1-500ppm(偵測)、8-50 ppm(覺察)	熔點:-
pH 值: -	沸點/沸點範圍:212 °C
易燃性(固體、氣體):-	閃火點:69.3 °C
分解溫度:-	測試方法(開杯或閉杯):閉杯
自燃溫度: 354 °C	爆炸界限:1.5-7.0%
蒸氣壓: 3.8 mmHg@22.3 °C	蒸氣密度:4.6 (空氣=1)
密度: 0.962 (水=1)	溶解度:10 g/100 mL(水)
辛醇/水分配係數(log Kow):0.15	揮發速率:0.7(乙酸丁酯=1)

十、安定性及反應性

安定性: 正常狀況下安定
特殊狀況下可能之危害反應: 1.強氧化劑(如過氧化物、硝酸鹽、過氯酸鹽):可能引起火災及爆炸
應避免之狀況: 熱、明火、靜電、火焰、引火源。
應避免之物質: 1.強氧化劑(如過氧化物、硝酸鹽、過氯酸鹽)。
危害分解物: -

十一、毒性資料

暴露途徑: 吸入、皮膚接觸、眼睛接觸、食入
症狀: 噁心、頭痛、暈眩、疲勞、噁心、酒醉感、皮膚炎
急毒性: 吸　入: 1.暴露於10000 ppm 6 分鐘或2000ppm 4 分鐘, 引起輕微暈眩, 5000ppm 4分鐘, 導致明顯的暈眩, 無法直線行走, 不行蹣跚和肌肉不協調, 但無眼部疼痛或鼻子、喉嚨刺激性。2.高濃度會引起黏膜的刺激, 曝露5000ppm 15分鐘, 會使某些人昏睡持續30 分鐘之久, 持續曝露數個小時會產生噁心、食慾不振、汽油味等身體不適。3.致命的濃度為16000ppm。 皮膚接觸: 1.簡略的接觸, 無刺激性。2.長時間接觸(1-5 小時), 會產生紅和發炎。 眼睛接觸: 1.高濃度蒸氣會引起輕微刺激。2.液體機接觸會引起暫時性刺激和疼痛。 食　入: 1.食入會引起噁心、嘔吐、腹部腫脹、頭痛和抑鬱。2.吞食的毒性低, 除非液體吸入肺部。吸入為吞食或嘔吐時, 該物質被吸入肺部, 會導致肺部刺激(化學性支氣管炎)、肺部組織受損(肺水腫)或死亡。 LD50(測試動物、曝露途徑):2000 mg/kg (雄鼠, 吞食) LC50(測試動物、曝露途徑):800 mg/L - 8小時 (雌鼠, 吸入)
慢毒性或長期毒性: 1.皮膚長期接觸, 會引起皮膚刺激和皮膚炎(發炎、紅、腫脹)。2.曝露於0.75-1000 ppm 達1-5 年可能引起血液混亂。

十二、生態資料

生態毒性: LC50(魚類):120 mg/L - 24 小時 EC50(水生無脊椎動物):- 生物濃縮係數(BCF):-
持久性及降解性: 1.4 次實驗解果顯示,異丙醇於污水中五天(20℃)後可分解58%的BOD 理論值. 2.當釋放至水中,預期會蒸發(估計其半衰期為5.4天)及可能被生物分解掉(雖然實驗室中會快速分解,但天然水源中仍無相關數據). 3.當釋放至大氣中,預期會進行光解作用(半衰期約1至數天),且因其在水中有溶解性,可能會被雨水沖刷下來. 半衰期(空　氣):6.2~72 小時 半衰期(水表面):24~168 小時 半衰期(地下水):48~336 小時 半衰期(土　壤):24~168 小時
生物蓄積性: 在體內不會蓄積。
土壤中之流動性: 當釋放至土壤中,因其高蒸氣壓與對土壤的低吸附性,預期會快速的蒸發及流入地下。
其他不良效應:-

十三、廢棄處置方法

廢棄處置方法: 1. 參考廢棄物清理法。 2. 可採用特定的焚化法或衛生掩埋法處理。 3. 在安全可行的情況下, 建議回收廢溶劑。 4. 廢棄物的處理, 必須由受過訓對且有經驗的人員著適當裝備設施內執行(關於個人防護裝備請參照「八、暴露預防措施」)。

十四、運送資料

聯合國編號:-
聯合國運輸名稱:非危險物品
運輸危害分類:-
包裝類別:-
海洋污染物(是／否):否
特殊運送方法及注意事項:-

十五、法規資料

適用法規: 1.職業安全衛生設施規則。2.危害性化學品標示及通識規則。 3.有機溶劑中毒預防規則。4.勞工作業場所容許暴露標準 5.道路交通安全規則。6.事業廢棄物貯存清除處理方法及設施標準。 7.公共危險物品及可燃性高壓氣體製造儲存處理場所設置標準暨安全管理辦法。

十六、其他資料

參考文獻	1. CHEMINFO 資料庫, CCINFO 光碟, 2000-3 2. HAZARDTEXT 資料庫, TOMES PLUS 光碟, Vol.45, 2000 3. RTECS 資料庫, TOMES PLUS 光碟, Vol.45, 2000 4. HSDB 資料庫, TOMES PLUS 光碟, Vol.45, 2000 5. 危害化學物質中文資料庫, 環保署
	名稱:明輝化工實業有限公司

製表單位	地址:新北市土城區大安路138巷32號 電話:(02)2269-2527	
製表人	職稱:研發經理	姓名(簽章):江清樺
製表日期	2023/5/24	
備註	上述資料中符號"-"代表目前查無相關資料, "/"代表此欄位對該物質並不適用。	

Test Report

No.: ETR22805117 Date: 01-Sep-2022

SABIC TAIWAN HOLDING LIMITED, TAIWAN BRANCH
ROOM B, 7F, NO. 8, MIN SHENG E. RD., SEC. 3, TAIPEI CITY 10480, TAIWAN

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

Sample Submitted By	:	SABIC TAIWAN HOLDING LIMITED, TAIWAN BRANCH
Sample Name	:	PC FILM/SHEET
Style/Item No.	:	LEXAN* 8010 / 8010Q / 8030 / 80330 / 8040 / 8010SHC / 8010QSH / 8010MC / 8B45
Sample may cover	:	LEXAN* 8010MC, 8010MT, 8010SHC, 8010SHT, 8010QMC, 8010QMT, 8010QSHC, 8010QSHT, 8010xx, 8030, 8030DC, 8030TC, 80330, 8040, 8040D, 8040DE, 8040T, 8040TE,8B45(x MAY COVER 0 ~ 99, ANY LETTERS [EXCLUDING V] OR COMBINATION WITH DIGITS AND LETTERS)
Main Substance	:	POLYCARBONATE LEXAN* IS A TRADEMARK OF SABIC

==========

Sample Receiving Date	:	26-Aug-2022
Testing Period	:	26-Aug-2022 to 01-Sep-2022

Test Requested :
(1) 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).
(2) As specified by client, to test PAHs and 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

CHECK REPORT
PIN CODE: 65BA74CF

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SABIC TAIWAN HOLDING LIMITED, TAIWAN BRANCH
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Test Part Description

No.1 : TRANSPARENT SHEET (EXCLUDING THE RELEASE FILM)

Test Result(s)

Test Item(s)	Method	Unit	MDL	Result
				No.1
Cadmium (Cd) (CAS No.: 7440-43-9)	With reference to IEC 62321-5: 2013, analysis was performed by ICP-OES.	mg/kg	2	n.d.
Lead (Pb) (CAS No.: 7439-92-1)	With reference to IEC 62321-5: 2013, analysis was performed by ICP-OES.	mg/kg	2	n.d.
Mercury (Hg) (CAS No.: 7439-97-6)	With reference to IEC 62321-4: 2013+ AMD1: 2017, analysis was performed by ICP-OES.	mg/kg	2	n.d.
Hexavalent Chromium Cr(VI) (CAS No.: 18540-29-9)	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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Test Item(s)	Method	Unit	MDL	Result
				No.1
Polycyclic Aromatic Hydrocarbons (PAHs)				
Benzo[a]pyrene (CAS No.: 50-32-8)	With reference to AfPS GS 2019:01 PAK, analysis was performed by GC/MS.	mg/kg	0.2	n.d.
Benzo[e]pyrene (CAS No.: 192-97-2)		mg/kg	0.2	n.d.
Benzo[a]anthracene (CAS No.: 56-55-3)		mg/kg	0.2	n.d.
Benzo[b]fluoranthene (CAS No.: 205-99-2)		mg/kg	0.2	n.d.
Benzo[j]fluoranthene (CAS No.: 205-82-3)		mg/kg	0.2	n.d.
Benzo[k]fluoranthene (CAS No.: 207-08-9)		mg/kg	0.2	n.d.
Chrysene (CAS No.: 218-01-9)		mg/kg	0.2	n.d.
Dibenzo[a,h]anthracene (CAS No.: 53-70-3)		mg/kg	0.2	n.d.
Benzo[g,h,i]perylene (CAS No.: 191-24-2)		mg/kg	0.2	n.d.
Indeno[1,2,3-c,d]pyrene (CAS No.: 193-39-5)		mg/kg	0.2	n.d.
Anthracene (CAS No.: 120-12-7)		mg/kg	0.2	n.d.
Fluoranthene (CAS No.: 206-44-0)		mg/kg	0.2	n.d.
Phenanthrene (CAS No.: 85-01-8)		mg/kg	0.2	n.d.
Pyrene (CAS No.: 129-00-0)		mg/kg	0.2	n.d.
Naphthalene (CAS No.: 91-20-3)		mg/kg	0.2	n.d.
Sum of 15 PAHs		mg/kg	-	n.d.
Butyl benzyl phthalate (BBP) (CAS No.: 85-68-7)	With reference to IEC 62321-8: 2017, analysis was performed by GC/MS.	mg/kg	50	n.d.
Dibutyl phthalate (DBP) (CAS No.: 84-74-2)	With reference to IEC 62321-8: 2017, analysis was performed by GC/MS.	mg/kg	50	n.d.
Di-(2-ethylhexyl) phthalate (DEHP) (CAS No.: 117-81-7)	With reference to IEC 62321-8: 2017, analysis was performed by GC/MS.	mg/kg	50	n.d.
Diisobutyl phthalate (DIBP) (CAS No.: 84-69-5)	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.

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Test Item(s)	Method	Unit	MDL	Result
				No.1
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-n-hexyl phthalate (DNHP) (CAS No.: 84-75-3)	With reference to IEC 62321-8: 2017, analysis was performed by GC/MS.	mg/kg	50	n.d.
Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified (α- HBCDD, β- HBCDD, γ- HBCDD) (CAS No.: 25637-99-4, 3194-55-6 (134237-51-7, 134237-50-6, 134237-52-8))	With reference to IEC 62321-9: 2021, analysis was performed by GC/MS.	mg/kg	20	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.
PFOS and its salts (CAS No.: 1763-23-1 and its salts)	With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.	mg/kg	0.01	n.d.
Tetrabromobisphenol A (TBBP-A) (CAS No.: 79-94-7)	With reference to RSTS-E&E-121, analysis was performed by LC/MS.	mg/kg	10	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
5. PFOS and its salts including :
   CAS No.: 29081-56-9, 2795-39-3, 29457-72-5, 70225-14-8, 56773-42-3, 251099-16-8, 307-35-7.

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Remark：

Δ AfPS (German commission for Product Safety): GS PAHs requirements

Parameter	Category 1	Category 2		Category 3	
	Materials intended to be placed in the mouth, or materials in toys (Directive 2009/48/EC) or articles for children up to 3 years of age with intended long-term skin contact (> 30 seconds).	Materials that are not in Category 1, with intended or foreseeable long-term skin contact (> 30 seconds) or short-term repetitive contact with the skin.		Materials not covered by Category 1 or 2, with intended or foreseeable short-term skin contact (≦30 seconds).	
		a. Use by children under 14	b. Other consumer products	a. Use by children under 14	b. Other consumer products
Naphthalene	< 1	< 2		< 10	
Phenanthrene	< 1 Sum	< 5 Sum	< 10 Sum	< 20 Sum	< 50 Sum
Anthracene					
Fluoranthene					
Pyrene					
Benzo[a]anthracene	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Chrysene	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo[b]fluoranthene	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo[j]fluoranthene	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo[k]fluoranthene	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo[a]pyrene	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo[e]pyrene	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Indeno[1,2,3-c,d] pyrene	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Dibenzo[a,h]anthracene	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo[g,h,i]perylene	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Sum of 15 PAH	< 1	< 5	< 10	< 20	< 50

Unit：mg/kg

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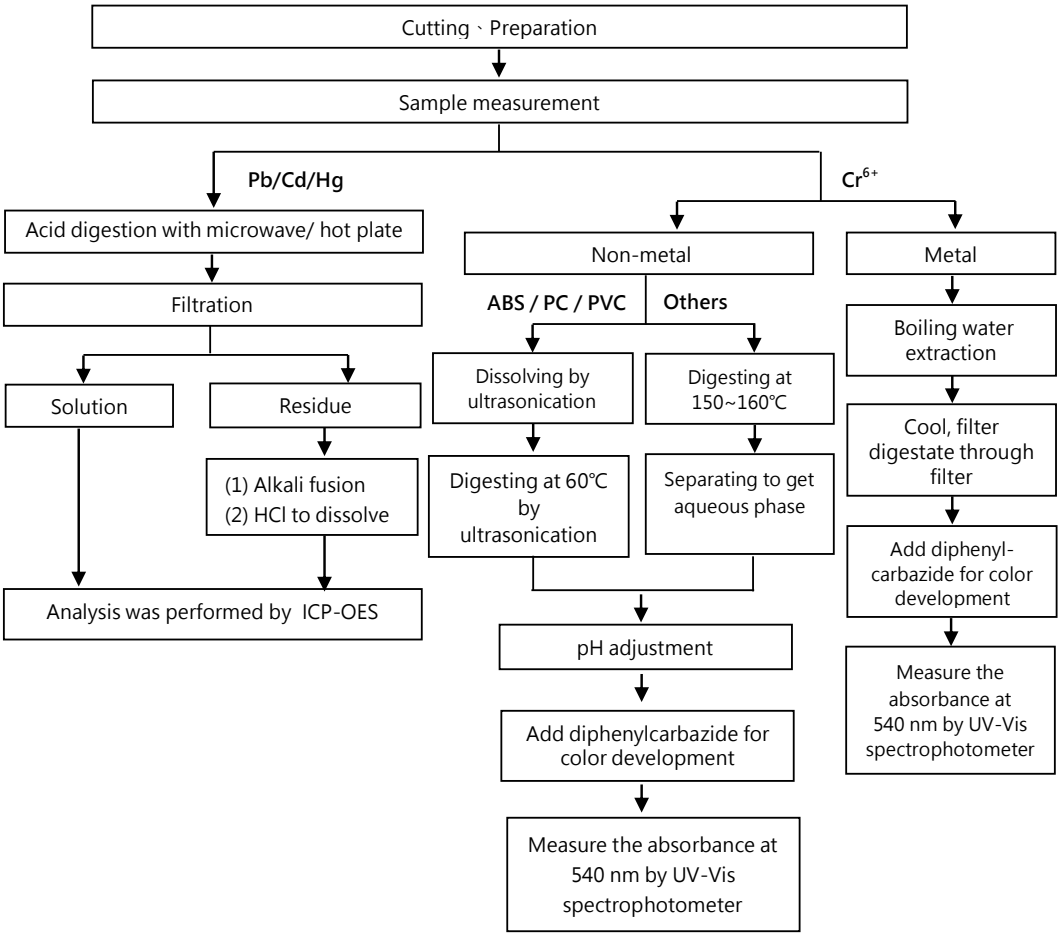
SABIC TAIWAN HOLDING LIMITED, TAIWAN BRANCH
ROOM B, 7F, NO. 8, MIN SHENG E. RD., SEC. 3, TAIPEI CITY 10480, TAIWAN

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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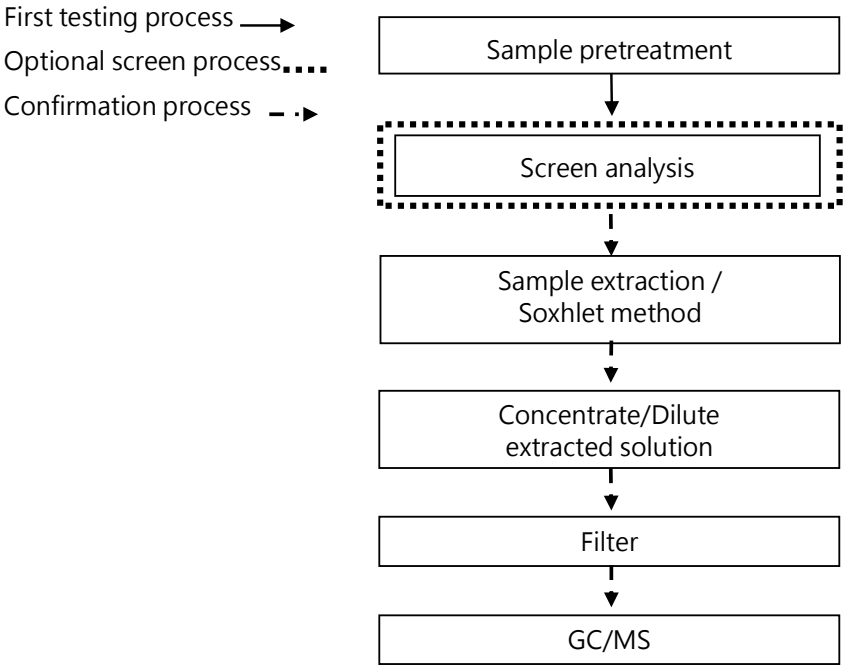
SABIC TAIWAN HOLDING LIMITED, TAIWAN BRANCH
ROOM B, 7F, NO. 8, MIN SHENG E. RD., SEC. 3, TAIPEI CITY 10480, TAIWAN

Analytical flow chart – PBBs / PBDEs



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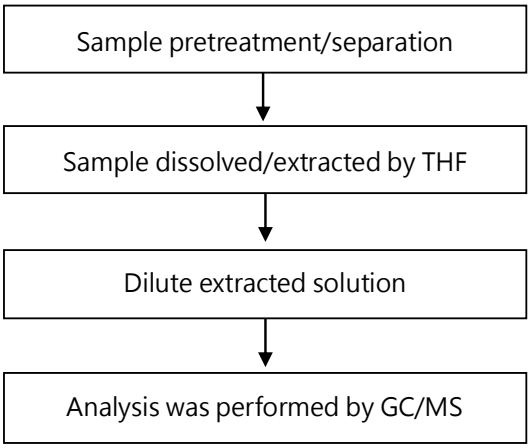
SABIC TAIWAN HOLDING LIMITED, TAIWAN BRANCH
ROOM B, 7F, NO. 8, MIN SHENG E. RD., SEC. 3, TAIPEI CITY 10480, TAIWAN

Analytical flow chart - Phthalate

【Test method: IEC 62321-8】



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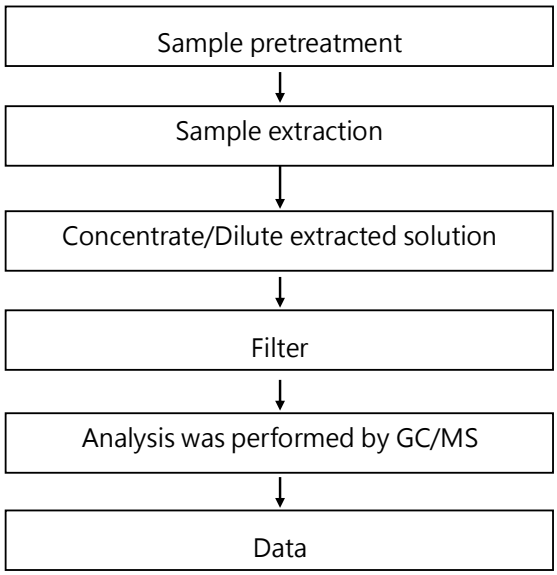
SABIC TAIWAN HOLDING LIMITED, TAIWAN BRANCH
ROOM B, 7F, NO. 8, MIN SHENG E. RD., SEC. 3, TAIPEI CITY 10480, TAIWAN

Analytical flow chart - HBCDD



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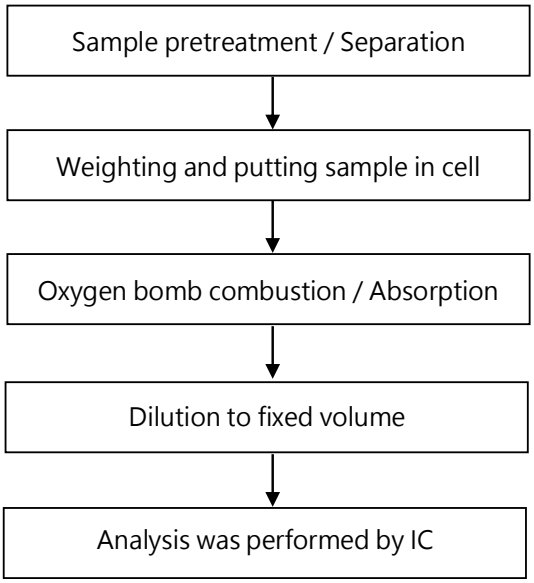
SABIC TAIWAN HOLDING LIMITED, TAIWAN BRANCH
ROOM B, 7F, NO. 8, MIN SHENG E. RD., SEC. 3, TAIPEI CITY 10480, TAIWAN

Analytical flow chart - Halogen



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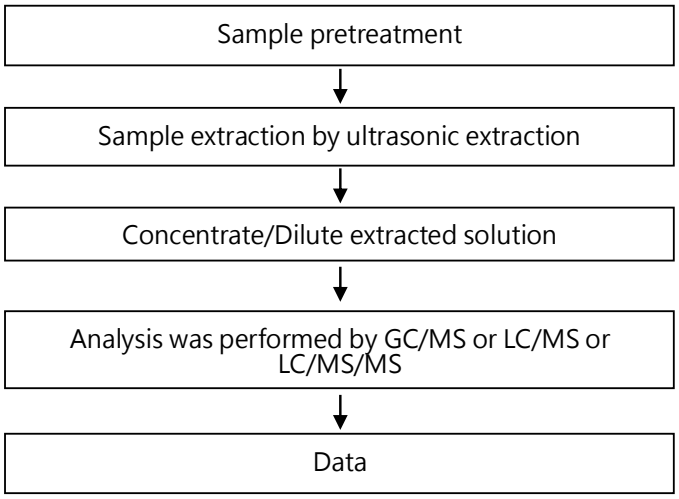
SABIC TAIWAN HOLDING LIMITED, TAIWAN BRANCH
ROOM B, 7F, NO. 8, MIN SHENG E. RD., SEC. 3, TAIPEI CITY 10480, TAIWAN

Analytical flow chart – PFAS (including PFOA/PFOS/its related compound, etc.)



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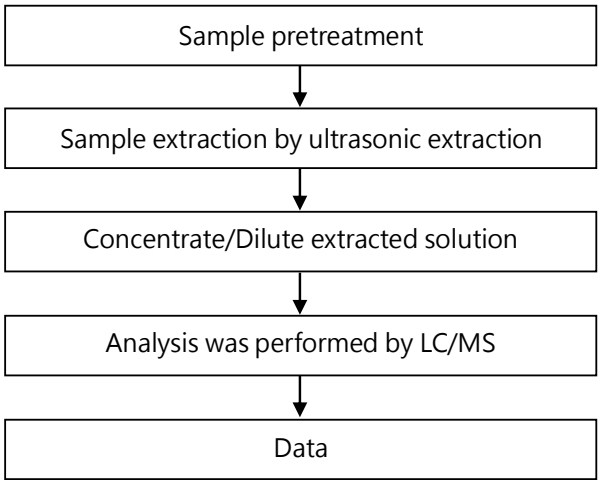
SABIC TAIWAN HOLDING LIMITED, TAIWAN BRANCH
ROOM B, 7F, NO. 8, MIN SHENG E. RD., SEC. 3, TAIPEI CITY 10480, TAIWAN

Analytical flow chart - TBBP-A



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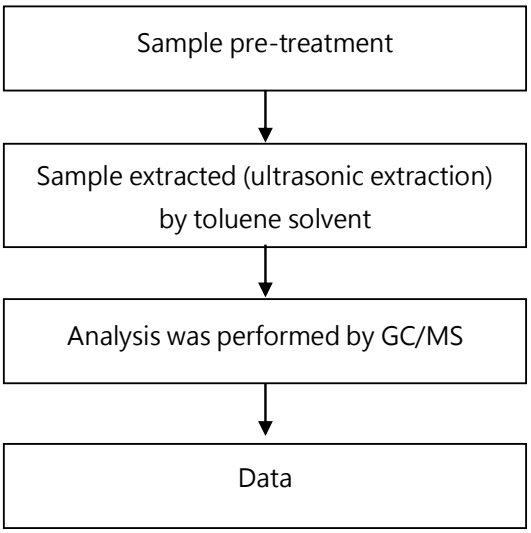
SABIC TAIWAN HOLDING LIMITED, TAIWAN BRANCH
ROOM B, 7F, NO. 8, MIN SHENG E. RD., SEC. 3, TAIPEI CITY 10480, TAIWAN

Analytical flow chart - PAHs (Polycyclic Aromatic Hydrocarbons)



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SABIC TAIWAN HOLDING LIMITED, TAIWAN BRANCH
ROOM B, 7F, NO. 8, MIN SHENG E. RD., SEC. 3, TAIPEI CITY 10480, TAIWAN

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

ETR22805117



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Test Report

No.: ETR23603807 Date: 30-Jun-2023

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 SERIES(T4000,T4000W)
Lot No.	:	2J01
The Testing Sample	:	T4000

==========

Sample Receiving Date	:	21-Jun-2023
Testing Period	:	21-Jun-2023 to 30-Jun-2023

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: 7F933F34

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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	With reference to IEC 62321-6: 2015, analysis was performed by GC/MS.	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
1724 SHIMOTSUBOYAMA, SHIMOTSUKE-SHI, TOCHIGI 323-0194, JAPAN

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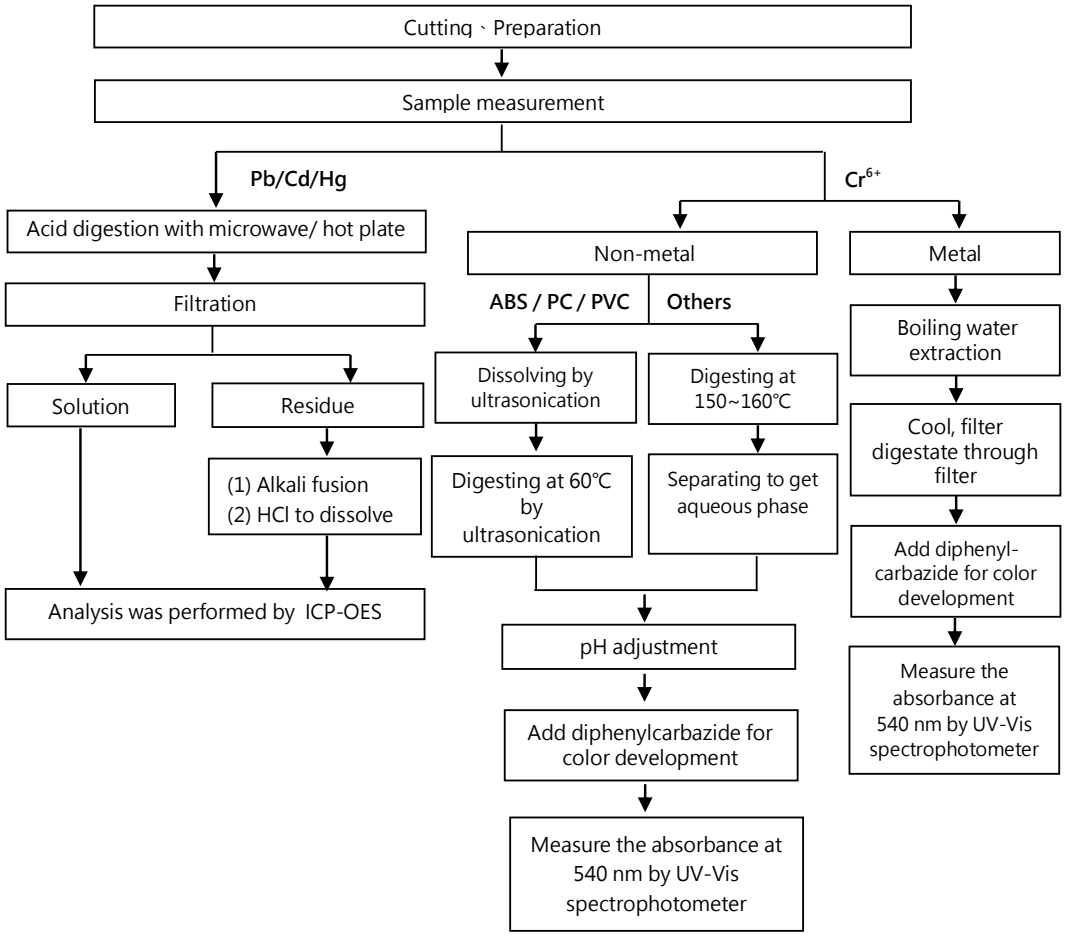
DEXERIALS CORPORATION
1724 SHIMOTSUBOYAMA, SHIMOTSUKE-SHI, TOCHIGI 323-0194, JAPAN

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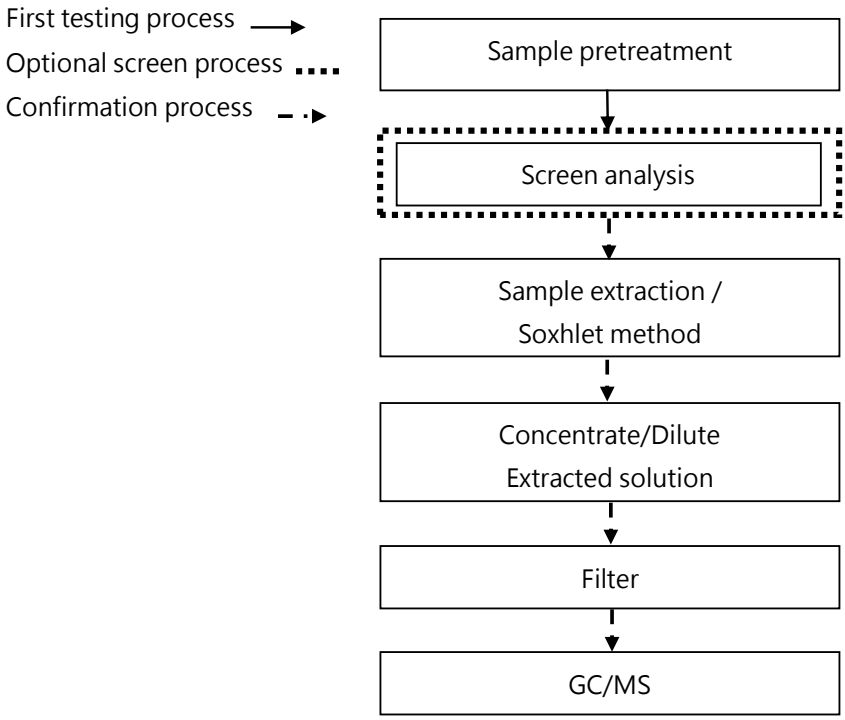
DEXERIALS CORPORATION
1724 SHIMOTSUBOYAMA, SHIMOTSUKE-SHI, TOCHIGI 323-0194, JAPAN

Analytical flow chart – PBBs / PBDEs



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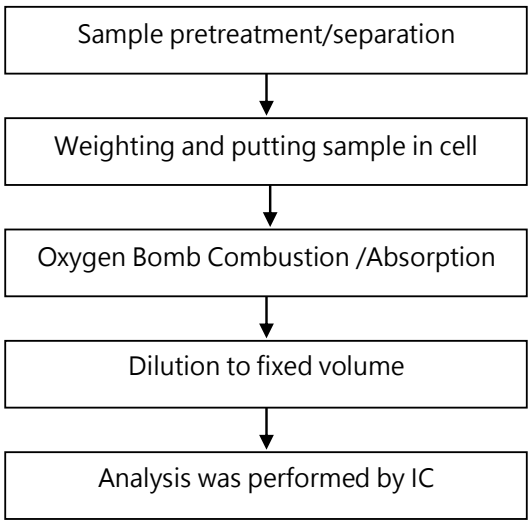
DEXERIALS CORPORATION
1724 SHIMOTSUBOYAMA, SHIMOTSUKE-SHI, TOCHIGI 323-0194, JAPAN

Analytical flow chart of Halogen



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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. ***

ETR23603807



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Test Report

No.: ETR23603808 Date: 30-Jun-2023

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 SERIES(T4000,T4000W)
Lot No.	:	2J01
The Testing Sample	:	T4000

==========

Sample Receiving Date	:	21-Jun-2023
Testing Period	:	21-Jun-2023 to 30-Jun-2023

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

CHECK REPORT
PIN CODE: FFE3BF64

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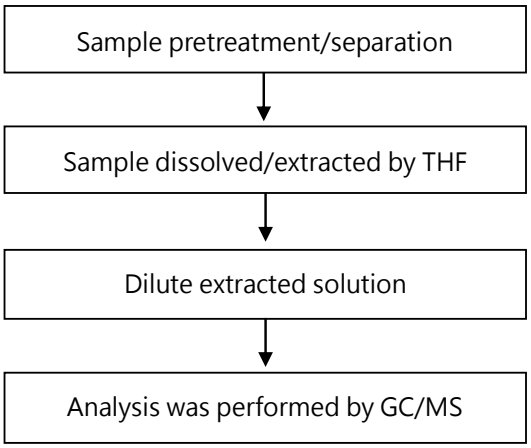
DEXERIALS CORPORATION
1724 SHIMOTSUBOYAMA, SHIMOTSUKE-SHI, TOCHIGI 323-0194, JAPAN

Analytical flow chart - Phthalate

【Test method: IEC 62321-8】



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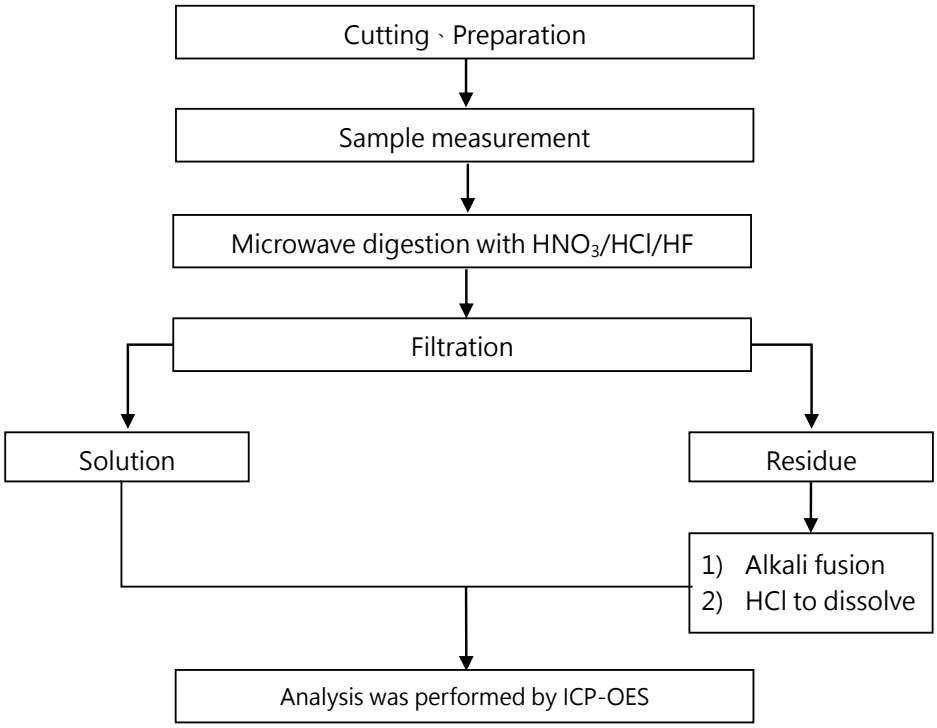
DEXERIALS CORPORATION
1724 SHIMOTSUBOYAMA, SHIMOTSUKE-SHI, TOCHIGI 323-0194, JAPAN

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. ***

ETR23603808



** End of Report **

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測試報告
Test Report

號碼(No.): ETR22A04745　　日期(Date): 07-Nov-2022　　

明輝化工實業有限公司 (MIN HUEY CHEMICALS INDUSTRIES CO., LTD.)
新北市土城區大安路138巷32號 (NO. 32, LN 138, DA'AN RD., TUCHENG DIST., NEW TAIPEI CITY 23673, TAIWAN)

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)	:	明輝化工實業有限公司 (MIN HUEY CHEMICALS INDUSTRIES CO., LTD.)
樣品名稱(Sample Name)	:	MIN HUEY SCREEN INK (明輝油墨)
樣品型號(Style/Item No.)	:	白色 (無鹵) (WHITE (NON-HALOGEN))

==========

收件日(Sample Receiving Date)	:	31-Oct-2022
測試期間(Testing Period)	:	31-Oct-2022 to 07-Nov-2022

測試需求(Test Requested) :

(1) 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).)

(2) 其他測試項目請見下一頁。 (Please refer to next pages for the other item(s).)

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

結　論(Conclusion) :

(1) 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

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測試報告
Test Report

明輝化工實業有限公司 (MIN HUEY CHEMICALS INDUSTRIES CO., LTD.)
新北市土城區大安路138巷32號 (NO. 32, LN 138, DA'AN RD., TUCHENG DIST., NEW TAIPEI CITY 23673, TAIWAN)

測試部位敘述 (Test Part Description)

No.1 : 白色油墨 (WHITE INK)

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)) (CAS No.: 7440-43-9)	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)) (CAS No.: 7439-92-1)		mg/kg	2	n.d.	1000
汞 (Hg) (Mercury (Hg)) (CAS No.: 7439-97-6)	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)) (CAS No.: 18540-29-9)	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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測試報告
Test Report

號碼(No.): ETR22A04745 日期(Date): 07-Nov-2022

明輝化工實業有限公司 (MIN HUEY CHEMICALS INDUSTRIES CO., LTD.)
新北市土城區大安路138巷32號 (NO. 32, LN 138, DA'AN RD., TUCHENG DIST., NEW TAIPEI CITY 23673, TAIWAN)

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)) (CAS No.: 85-68-7)	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)) (CAS No.: 84-74-2)		mg/kg	50	n.d.	1000
鄰苯二甲酸二(2-乙基己基)酯 (DEHP) (Di-(2-ethylhexyl) phthalate (DEHP)) (CAS No.: 117-81-7)		mg/kg	50	n.d.	1000
鄰苯二甲酸二異丁酯 (DIBP) (Diisobutyl phthalate (DIBP)) (CAS No.: 84-69-5)		mg/kg	50	n.d.	1000
鄰苯二甲酸二異癸酯 (DIDP) (Diisodecyl phthalate (DIDP)) (CAS No.: 26761-40-0, 68515-49-1)		mg/kg	50	n.d.	-
鄰苯二甲酸二異壬酯 (DINP) (Diisononyl phthalate (DINP)) (CAS No.: 28553-12-0, 68515-48-0)		mg/kg	50	n.d.	-
鄰苯二甲酸二正辛酯 (DNOP) (Di-n-octyl phthalate (DNOP)) (CAS No.: 117-84-0)		mg/kg	50	n.d.	-

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測試報告
Test Report

明輝化工實業有限公司 (MIN HUEY CHEMICALS INDUSTRIES CO., LTD.)
新北市土城區大安路138巷32號 (NO. 32, LN 138, DA'AN RD., TUCHENG DIST., NEW TAIPEI CITY 23673, TAIWAN)

測試項目 (Test Items)	測試方法 (Method)	單位 (Unit)	MDL	結果 (Result) No.1	限值 (Limit)
六溴環十二烷及所有主要被辨別出的異構物 (HBCDD) (α- HBCDD, β- HBCDD, γ- HBCDD) (Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified (α- HBCDD, β- HBCDD, γ- HBCDD)) (CAS No.: 25637-99-4, 3194-55-6 (134237-51-7, 134237-50-6, 134237-52-8))	參考IEC 62321-9: 2021，以氣相層析儀/質譜儀分析。(With reference to IEC 62321-9: 2021, analysis was performed by GC/MS.)	mg/kg	20	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
4. "-" = Not Regulated (無規格值)
5. 除非另有說明，參照ILAC-G8:09/2019，採用簡單二元(w=0)允收規則進行符合性判定；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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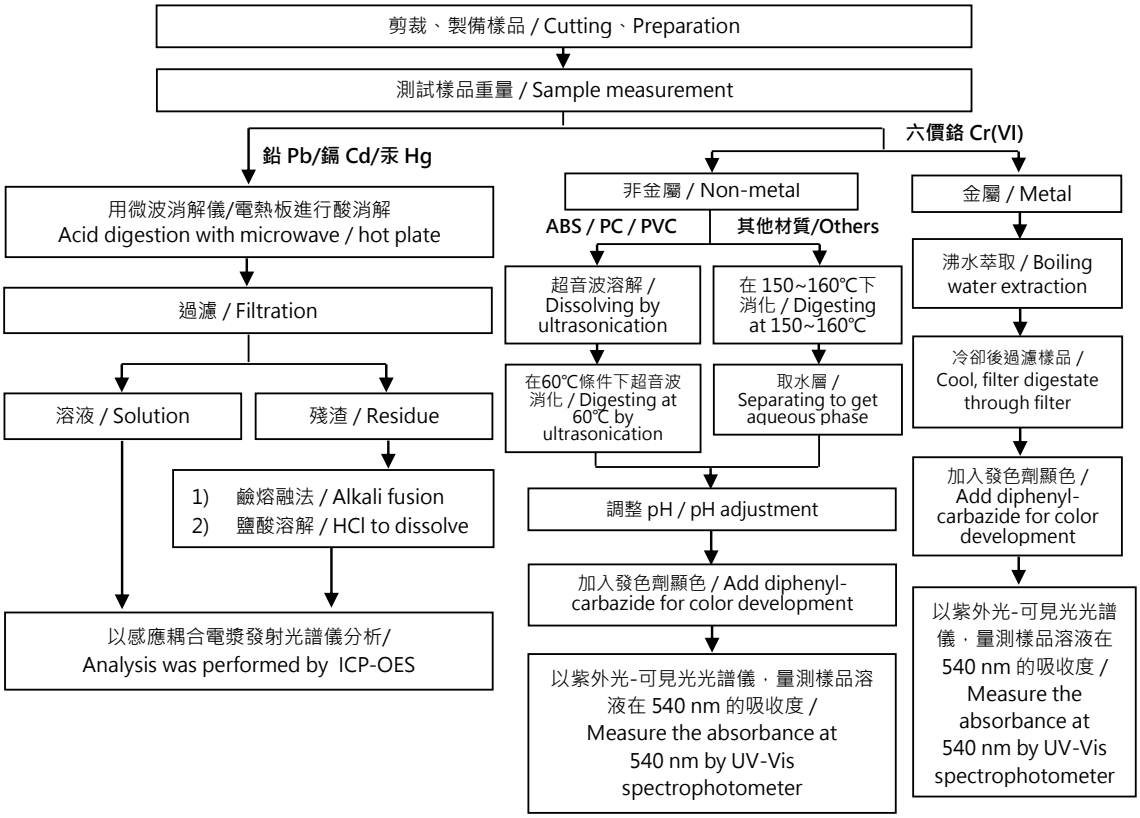
明輝化工實業有限公司 (MIN HUEY CHEMICALS INDUSTRIES CO., LTD.)
新北市土城區大安路138巷32號 (NO. 32, LN 138, DA'AN RD., TUCHENG DIST., NEW TAIPEI CITY 23673, TAIWAN)

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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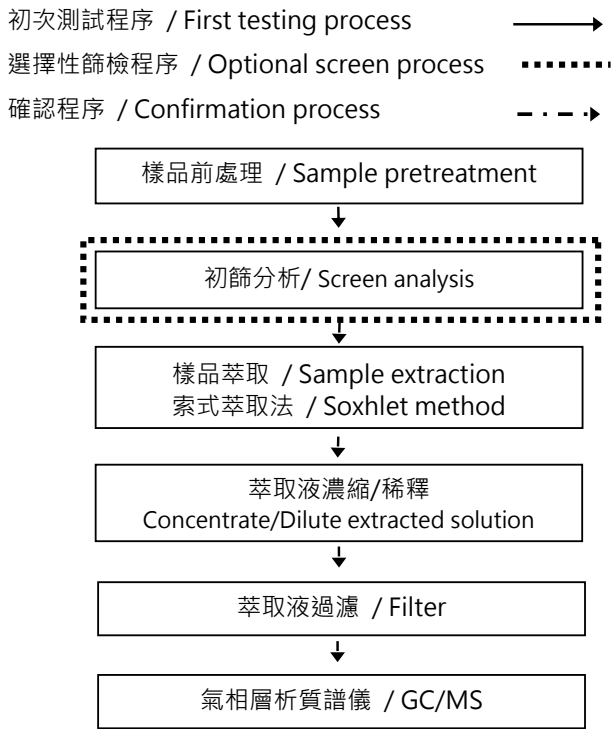
新北市土城區大安路138巷32號 (NO. 32, LN 138, DA'AN RD., TUCHENG DIST., NEW TAIPEI CITY 23673, TAIWAN)

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



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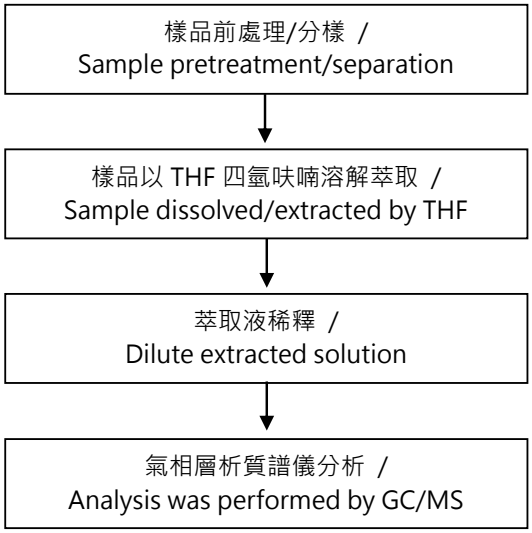
明輝化工實業有限公司 (MIN HUEY CHEMICALS INDUSTRIES CO., LTD.)
新北市土城區大安路138巷32號 (NO. 32, LN 138, DA'AN RD., TUCHENG DIST., NEW TAIPEI CITY 23673, TAIWAN)

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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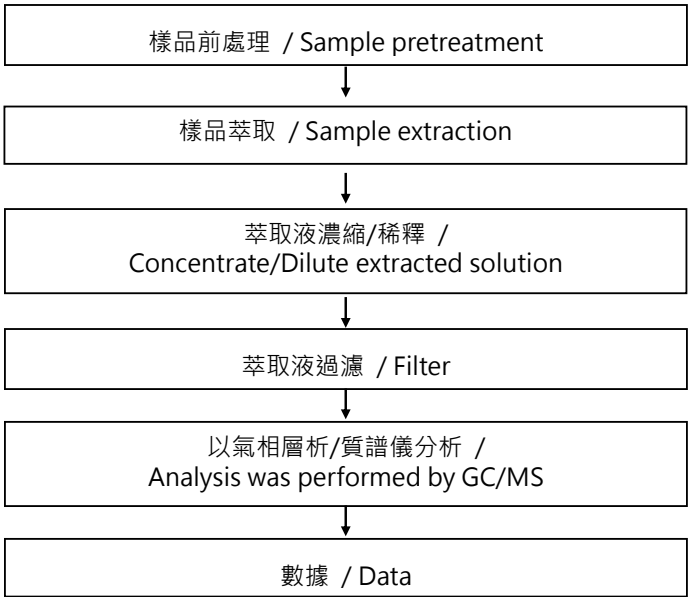
明輝化工實業有限公司 (MIN HUEY CHEMICALS INDUSTRIES CO., LTD.)
新北市土城區大安路138巷32號 (NO. 32, LN 138, DA'AN RD., TUCHENG DIST., NEW TAIPEI CITY 23673, TAIWAN)

六溴環十二烷分析流程圖 / Analytical flow chart - HBCDD



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測試報告
Test Report

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ETR22A04745



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測試報告
Test Report

號碼(No.): ETR22A04746　　日期(Date): 07-Nov-2022　　

明輝化工實業有限公司 (MIN HUEY CHEMICALS INDUSTRIES CO., LTD.)
新北市土城區大安路138巷32號 (NO. 32, LN 138, DA'AN RD., TUCHENG DIST., NEW TAIPEI CITY 23673, TAIWAN)

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)	:	明輝化工實業有限公司 (MIN HUEY CHEMICALS INDUSTRIES CO., LTD.)
樣品名稱(Sample Name)	:	MIN HUEY SCREEN INK (明輝油墨)
樣品型號(Style/Item No.)	:	白色 (無鹵) (WHITE (NON-HALOGEN))

==========

收件日(Sample Receiving Date)	:	31-Oct-2022
測試期間(Testing Period)	:	31-Oct-2022 to 07-Nov-2022

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

CHECK REPORT
PIN CODE: CA040B3A

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Test Report

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測試部位敘述 (Test Part Description)

No.1 : 白色油墨 (WHITE INK)

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	192
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	59.5
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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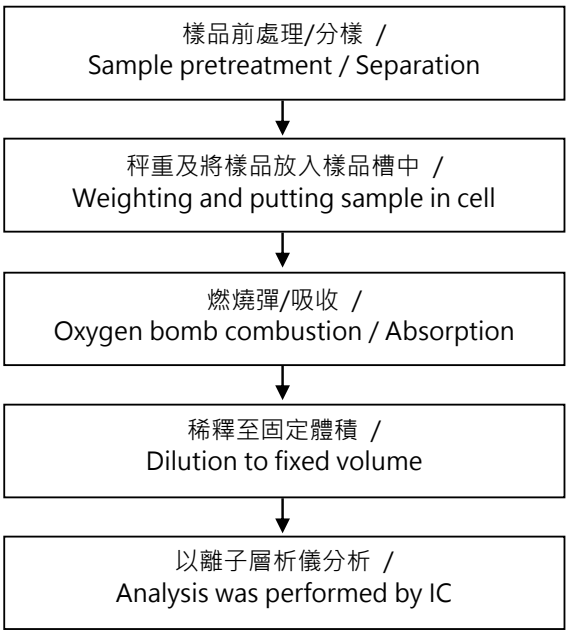
鹵素分析流程圖 / Analytical flow chart - Halogen



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