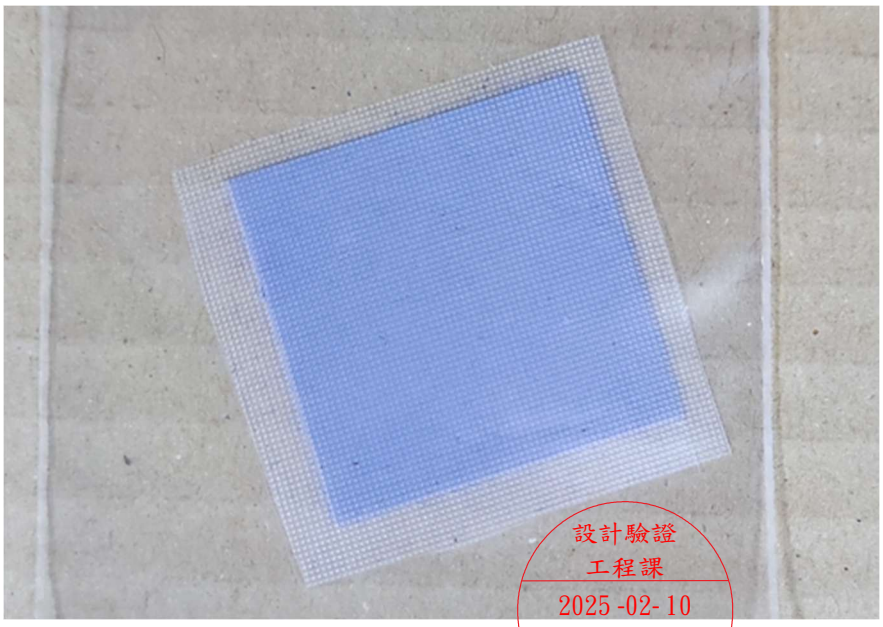

設計驗證
工程課
2025 -02- 10
發行
弘鑫科技開發股份有限公司

翰興科技股份有限公司
SUPA MATERIAL, INC.
235 新北市中和區中正路700號13樓之8
13F-8, No.700, Zhongzheng Rd., Zhonghe Dist., New Taipei City, Taiwan 235
Tel: 886-2-8227-8889 Fax: 886-2-8227-8890

APPROVAL

Customer Name : DIVA LABORATORIES, LTD.

Customer Part No. : 3H010010600 (H0223)

Inspected By : _____

Checked By : _____

Approved By : _____

Date : _____

設計驗證
工程課
2025 -02- 10
發行
翰興科技開發股份有限公司

MODEL NO.	PART NO.	DESCRIPTION	SPEC NO.
Sarcon GR80B-0H	3B8029502950500	Highly-conformable, highly-compressible, high-performance silicone gap-filling material; One-sided surface hardened, one-sided self-tacky. Color: gray Size: 29.5mm x 29.5mm Thickness: 0.5mm	80B0H

Please kindly find and approve the specifications inserted herein and return one copy hereof with your signature of approval.

Prepared By Amanda

Checked By Carrie

Confirmed By Joey

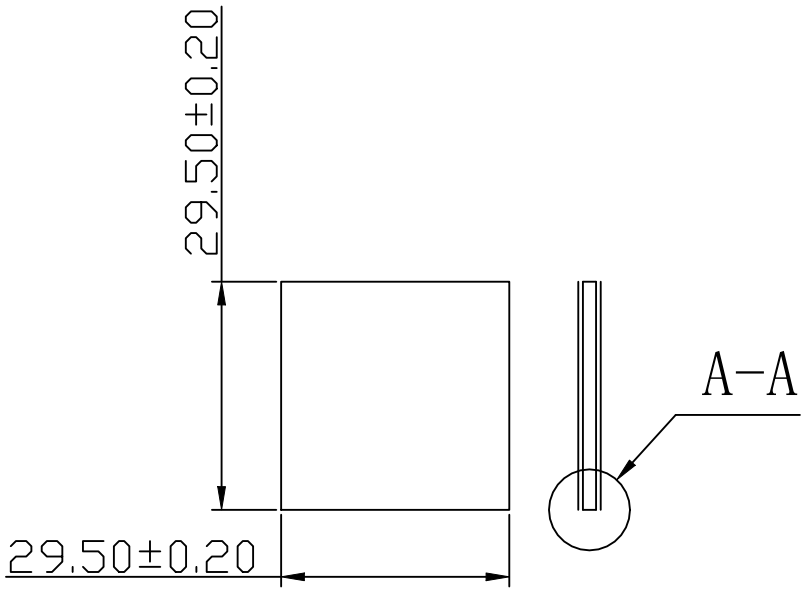
SARCON GR80B-0H

Highly-conformable, highly-compressible,
high-performance silicone gap-filling material
Available thickness 0.3 to 3mm

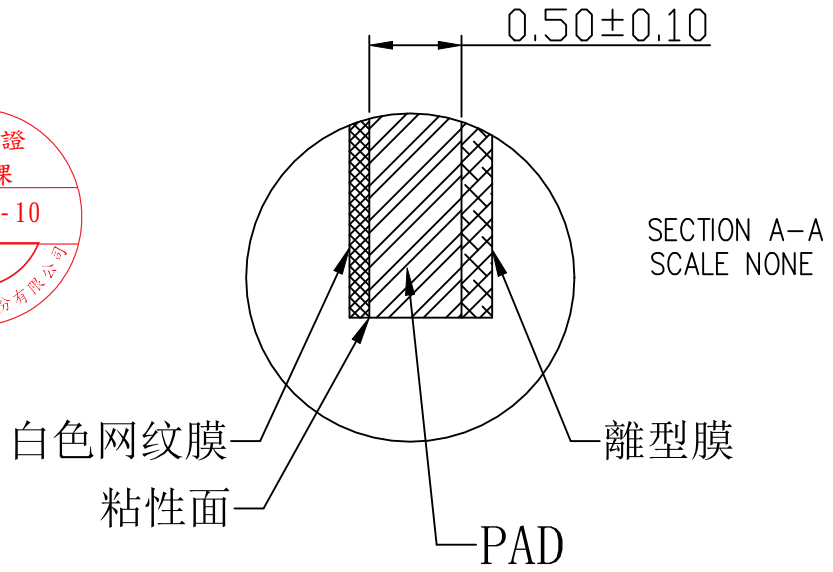
Characteristics	Unit	0.3mm	0.5mm	1.0mm	2.0mm	3.0mm
Color	/	gray	gray	gray	gray	gray
Thermal impedance @ 14.5psi	°Cin^2/W	0.09	0.11	0.2	0.36	0.5
Thermal conductivity	W/mK	8	8	8	8	8
Dielectric strength	KV/mm	8	8	8	8	8
Withstand Voltage	KV/mm	12	12	12	12	12
Volume resistivity	MΩ*m	3x10^{11}	3x10^{11}	3x10^{11}	3x10^{11}	3x10^{11}
Thickness	mm	0.3 ± 0.06	0.5 ± 0.1	1 ± 0.15	2 ± 0.3	3 ± 0.3
Specific gravity	/	3.3	3.3	3.3	3.3	3.3
Hardness	Shore 00	67	67	67	67	67
Pressure for 10% of compression	psi	20.4	18.1	24.5	28.1	14.5
Pressure for 20% of compression	psi	48	64.3	83.6	121.9	49.8
Pressure for 30% of compression	psi	96.3	120.3	174	198	137.5
Pressure for 40% of compression	psi	142.5	175.4	258.3	241.7	199.1
Pressure for 50% of compression	psi	182.4	237	344.1	296.6	231.1
Sustain 50% of compression	psi	175.1	223.4	269.6	227.7	115.1
UL flammability class	/	94 V-0	94 V-0	94 V-0	94 V-0	94 V-0
Operating temperature range	°C	-40 to +150	-40 to +150	-40 to +150	-40 to +150	-40 to +150

中望CAD教育版设计

REVISIONS				
LTR	DATE	UPDATE DESCRIPTION	SIGN	EC NO.
A	2025/02/05	第一次发行		



設計驗證
工程課
2025-02-10
發行
鈺緯科技開發股份有限公司



裁切要求	原膜不斷膜
原料材质	GR80B-0H
原料颜色	灰色
成品上膜	网/白

Note：
1、粘性面在上；
2、散热片本身不可有指甲印、压伤、变形、脏污、异常变色等外观不良；
3、未注明公差见宽容表。

环保要求：禁止使用I级环境管理物质!符合伟翰公司环境管理物质使用规范或依客户环保要求。

图档编号. LS-10280 FINISH	昆山伟翰电子有限公司 EAPUS TECHNOLOGY (KUNSHAN) CO., LTD.			
加工方式 裁切		客户名称 Champleader 鈺緯	客户料号. 3H010010600 (H0223)	
TOLERANCE TABLE				
50.0— ~~ mm	±0.50	公司料号. 3B8029502950500		
30.0—50.0 mm	±0.40			
10.0—30.0 mm	±0.20	版本 A	UNIT mm 0 10	THIRD ANGLE PROJECTION
00.0—10.0 mm	±0.10			
ANGLE	±1°			
SHEET SIZE / SCALE / SHEET		核准者/DATE Seven 2025/02/05	审核者/DATE Seven 2025/02/05	制作者/DATE Lucy 2025/02/05
A4 / 1/1 / 1 of 1				

表单编号：KSA-FM-380 版本：A/1

中望CAD教育版设计

全尺寸测量報告

Part Number : 3H010010600 (H0223) Part Description : GR80B-0H Revision :	Supplier : **偉翰電子(昆山)有限公司** ISR No : Material Spec: **29.5x29.5x0.5mm**	Date: **2025/2/6** Cavity / Tool # : Inspector: Lucky	New: Revised: Resubmission:

MOI-Method of inspection abbreviation: HG = Height gauge, MIC = Micrometer, DC = Dial Caliper, P = Protractor, OC = Optical Comparator, CG = Checking Gauge, CMM = Coordinate Measuring Machine,
OMM = Optical Coordinate Measuring Machine, HT = Hardness Trester, TG = Thickness Gauge, VIS = Visual, PG = Plug Gauge,
OTHER:

DRAWING SPECIFICATIONS						INSPECTION RESULTS							INSPECTION ANALYSIS					
					Inspection	Sample Number			Deviation from Nominal				% Tolerance		Alert/Rej		Supplier	RD Engineering
ITEM	LOCATION	NOMINAL (单位：mm)	+TOL (单位：mm)	-TOL (单位: mm)	Method	1	2	3	1	2	3	Mean	UPPER	LOWER	HIGH	LOW	Remarks	Disposition
1	L	29.50	0.20	(0.20)	Caliper	29.53	29.53	29.46	***0.030***	***0.030***	***-0.040***	***29.507***	**15%**	**-20%**				
2	W	29.50	0.20	(0.20)	Caliper	29.54	29.53	29.46	***0.040***	***0.030***	***-0.040***	***29.510***	**20%**	**-20%**				
3	H	0.50	0.10	(0.10)	Caliper	0.52	0.52	0.48	***0.020***	***0.020***	***-0.020***	***0.507***	**20%**	**-20%**				

核准：朱月平　　审核：葛梦菲　　制成：倪玉

表单编号：KSA-FM-237　版本：A/2

SAFETY DATA SHEET

Date Prepared May. 6, 2024

1. Chemical Product & Company Information

Product Name : SARCON GR80B-00,0H-GY

Manufacture's Name : Fuji Polymer Industries Co., Ltd.
Address : 175 Kajiyashiki-cho Toyota-shi Aichi, Japan
Telephone Number : +81-565-65-2121
(Aichi Plant / Quality Assurance Dept.)

2. Hazards Identification

GHS Classification :

Physical hazards		: Classification not possible
Health hazards		
Specific target organ toxicity	- single exposure	: Category 3(Respiratory tract irritation)
Specific target organ toxicity	- repeated exposure	: Category 1(Lung : inhalation)
Environmental hazards		: Classification not possible

GHS Label Elements

Pictogram :



Signal Word : danger

Hazard Risk Statement : H335 May cause respiratory irritation
H372 Causes damage to organs through prolonged or repeated exposure.(Lung)

Precautionary Statement

Because it is a molded object, the risk of exposure is low and it must be considered that there is no inhalation of dust. So please handle it with the following points in mind.

Prevention : Do not breathe dust.
Avoid breathing dust.
Wash hands thoroughly after handling.
Do not eat, drink or smoke when using this product.

Response : IF INHALED : Remove person to fresh air and keep comfortable for breathing.
Call a POISON CENTER/doctor/.../if you feel unwell.
Get medical advice/attention if you feel unwell.

Storage : In order to prevent any characteristics alteration, keep it away from direct sunlight, water leakage, moisture, and heat.

Disposal : Dispose of contents/container by outsourcing to an authorized waste disposer approved by the local prefectural governor.

Other Hazard : No information

3. Composition/Information on Ingredients

Chemical characterizatio : Mixture
Generic Name : Silicone Rubber

Ingredients and Contents

Component Name	Content	CAS No.	METI Number
Aluminum oxide	70-80%	1344-28-1	(1)-23
Aluminum nitride	10-15%	Non-public	Non-public
Blue pigment	<1%	Non-public	Non-public
Silane compound	<1%	Non-public	Non-public
Siloxane compound	<1%	Non-public	Non-public
Platinum	<1%	Non-public	Non-public
Others	1-5%	Non-public	Non-public

4. First Aid Measures

Although it is thought that this is not inhaled and not because of product, give a description as below.
Because it is a molded product, it must be considered not to inhale, swallow or get in one's eye, as described below.

In Case of Inhalation : Remove person to fresh air and keep comfortable for breathing.
Get medical advice/attention.
In Case of Skin Contact : Wash with plenty of soap and water.
If skin irritation occurs, it get medical advice/attention.
In Case of Eye Contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
If eye irritation persists, it get medical advice/attention.
In Case of Ingestion : Rinse mouth. Immediately spit it out .
Get medical advice/attention.
Important Symptoms and Hazard effects : No information
Personal Protection for First Aid or Rescue Personne :
The rescuer wears a tool for protection such as rubber gloves, sealing up goggles.
Note to physicians : No information

5. Fire Fighting Measures

Suitable Extinguishing Media : We recommend any Dry chemical, Carbon dioxide(CO2), Foam, Water spray, Dry sand.
Unsuitable Extinguishing Media : Straight water injection
Specific Hazards : Fire may produce irritating and/or toxic gases.
Specific Fire Fighting : Prohibit the entrance except the person concerned to the outskirts of the fire scene. The fire fighting should be done from the windward side. Use an appropriate fire extinguishing method depending on a surrounding.
Protection for Fire-fighter : Wear appropriate protective equipment(e.g., gloves, goggles, mask) when fighting fires.

6. Accidental Release Measures

Personal Precautions, Protective Equipment and Emergency Proce(:
Wear appropriate protective equipment(e.g., gloves, goggles, protective clothing) when cleaning up spills.

Environmental Precautions :
Be careful not to be exhausted in a river, the sewer, the soil.
Methods and Materials for Containment and Cleaning up : Gather the material.
Prevention of secondary hazards :
Remove a thing becoming the nearby firing source immediately.
Set up a fire extinguisher, when fire it.

7. Handling and Storage

Handling :
Technical Measures : Implement the measures mentioned in "8.Exposure Controls/Personal Protection".
Wear appropriate protective equipment.
Local and General Ventilation : In case of powder dust happens, install the local or general ventilation.
Safe Handling Advice : Keep away from heat/hot surfaces/sparks/open flames.
In case of powder dust happens, do not inhale it.
Avoid contact with eyes and the skin.
Wash hands thoroughly after handling.

Storage :
Technical Measures : Equip with adequate sunlight/lights and ventilation in a storing place .
Storage Conditions : In order to prevent any characteristics alteration, keep it away from direct sunlight, water leakage, moisture, and heat.
Store in a dry, well-ventilated place.
Substances to Avoid Mixing : Refer to precautions indicated in "10. Stability and Reactivity".
Packaging Material : In order to prevent from deterioration, use packing without any damage.

8. Exposure Controls/Personal Protection

Control concentration : Not established.

Permissible concentrations : Japan Association on Industrial Health Guideline
Aluminum oxide (Raspirable dust) : 0.5 mg/m^3, (Total dust) : 2.0 mg/m^3

ACGIH
Aluminum oxide TLV-TWA = 1.0 mg/m^3

Engineering Measures : Risk of exposure due to moldings is low
Provide hand-washing, washing eyes and physical washing facilities in the place where the product is handled near, if necessary.
In case of powder dust happens, perform local or general ventilation.

Personal Protective Equipment

Respiratory protection	: Wear protection mask and a tool for protection for breathing, if necessary.
Hand protection	: Impermeable protection gloves, if necessary.
Eye protection	: Protection glasses, goggles type protection glasses, if necessary.
Skin protection	: Wear protective clothing or protection apron, if necessary.

Hygiene Measures : Do not eat, drink or smoke when using this product.
Wash hands thoroughly after handling.
Check the tool for protection by a tool for protection check list regularly.

9. Physical and Chemical Properties

Physical State	: Form	: Solid
	Color	: Gray
Odor	: none	
pH	: Not determined.	
Melting Point/Freezing Point	: Not determined.	
Boiling point, Initial Boiling Point, and Boiling Range	: Not determined.	
Flash Point	: Not determined.	
Autoignition Temperature	: Not determined.	
Combustion or explosion limit(Lower/Upper)	: Not determined.	
Vapor Pressure (mmHg)	: Not determined.	
Vapor Density (AIR=1)	: Not determined.	
Specific Gravity	: 3.3	
Solubility (Water)	: Insoluble	
Octanol/water partition	: Not determined.	
Decomposition Temperature	: Not determined.	
Other information	: Not determined.	

10. Stability and Reactivity

Reactive and Chemical Stability	: On the normal handling condition, it is stable.
Possibility of Hazardous Reactions	: None.
Conditions to Avoid	: Avoid substance to avoid mixing/contact
Substance to Avoid Mixing/Contact Witl	: Strong oxidising agents
Hazardous Decompositions Products	: If it is heated to >150 degrees C, trace quantities of formaldehyde may be released, and adequate ventilation is required.

11. Toxicological Information

We believe that harmful health effects do not occur with the recommended usage method, but below we describe the raw materials used.

Acute Toxicity（oral） : Aluminum oxide rat LD50 > 5000mg/kg
Acute Toxicity（dermal） : No information
Acute Toxicity（inhalation：gas） : Not applicable
Acute Toxicity（inhalation：vapor） : No information
Acute Toxicity（inhalation：dust/mist : No information
Skin Corrosion/Irritation : No information
Serious Eye Damage/Irritation : No information
Respiratory Organs Sensitization : No information
Skin Sensitization : No information
Germ Cell Mutagenicity :

Aluminum oxide

It was negative with or without metabolic activation in Ames test using salmonella. When it did not become metabolic activation in genetic exchange test using bacillus subtilis, it was negative.

Carcinogenicity :

Aluminum oxide

Because it is classified in A4 in ACGIH, assumed it "Not classified". In addition, in the exposure test that inhaled aluminum oxide fiber for 86 weeks to a rat, fibrosis and oncogenesis were not seen. In the intrapleural administered test aluminum oxide fiber(whisker)of 4-types,The increase in pleura sarcoma incidence was seen. The oncogenesis was not seen in two other fiber and non-fibrillar test substance.

Reproductive Toxicity :

Aluminum oxide

In the examination that gave bait including the aluminum to a pregnancy rat, the influence was not seen in an embryo, the death rate of fetuses, the number of the litters, the weight and size of young rat.

Specific Target Organ. Systemic Toxicity（Single Exposure） :

Aluminum oxide

Classified it in Category 3 (Respiratory tract irritation) from a mention of upper respiratory tract irritation (ICSC (2000)). When inhale it at high density, it was confirmed cough, pant, respiratory tract irrtation by the physical action, unpleasant deposit of nasal meatus and the aggravation of the symptom in the Homo sapiens having ventilatory impairment.

Specific Target Organ. Systemic Toxicity（Repeated Exposu :

Aluminum oxide

By occupational exposure, classified it in (EHC (1997)) mentioned in Category 1 where fibrosis of lung was accepted. In addition, in workers exposured by aluminum oxide dust of aluminum production and the pottery can not confirm the pneumoconiosis. According to the examination of inhalation exposure to a rat and a rabbit for 28 weeks, it was confirmed structural or functional change of the trachea or the bronchi, chronic

Aspiration Hazard : No information
Other : No information

12. Ecological Information

We do not believe that the recommended usage method will affect the environment, but below we describe the raw materials used.

Ecotoxicity

Fish	: Aluminum oxide	Salmo trutta： 96hr-NOEC > 100mg/L
Crustacea	: Aluminum oxide	Daphnia magna： 48hr-NOEC > 100mg/L
Algae	: Aluminum oxide	Algae： 72hr-NOEC > 100mg/L
Other	: No information	

Persistence and Degradabilit : No information
Bioaccumulative Potential : No bioaccumulation potential.
Mobility in Soil : In soil, siloxanes are degraded.
Hazardous to the ozone layer : Do not include an ingredient listed by an annex of Montreal Protocol.
Other hazardousness : Fate and Effects in Waste Water Treatment Plants
No adverse effects on bacteria. Removed >90% by binding onto sewage sludge. The siloxanes in this product do not contribute to the BOD.

13. Disposal Considerations

Residual Waste :
Dispose of in accordance with relevant laws and local regulation.
Outsource to the industrial waste disposer who has the permission of govemor of each prefecture or local public body for adequate disposal.

14. Transport Information

International Regulations	Land Transport	: Follow a rule of ADR/RID.
	Sea Transport	: Follow a rule of IMO.
	Air Transport	: Follow a rule of ICAO/IATA.
	UN-Number	: Not applicable
	UN-Hazard classr	: Not applicable
	Proper Shipping Name	: Not applicable
	Packing group	: Not applicable
	Marine Pollutant	: Not applicable
Local Regulations	Land regulation information	: Follow the Fire Services Act.
	Marine regulation information	: Follow the Law for Safety of Vessels.
	Aviation regulation information	: Follow the Aviation Act.

Specific safety measures at the time of the transportation and conditio ：
Under loading, containers must be carefully handled to prevent damage of containers and must be fixed them tightly to prevent falling of containers.
Avoid the transportation under direct rays of the sun and the higher temperature
Avoid contact with the water
Transport it according to the standard of other laws concerned
Emergency Response Guidebook number : Not applicable

15. Regulatory Information

Law Concerning the Examination and Regulation of Manufacture, etc. of Chemical Substances : Not applicable
Industrial Safety and Health Law : Article 57-2 Regulated Substance(s)
189 Aluminum oxide

Poisonous and Deleterious Substance Control La : Not applicable
Pollutant Release and Transfer Register(PRTR la : Not applicable

Fire Service Law : Non-hazardous materials
Sea Pollution Prevention Act : Not applicable
Aviation Act : Not applicable
Law for Safety of Vessels : Not applicable

16. Other Information

Although the description content is based so far on our latest knowledge, absolute accuracy of the content and comprehensiveness of collecting information are not complete. Since all raw materials have unknown dangers, it is necessary to pay sufficient attention to handling.
Also, this information relates to raw materials and products being used, and we do not assume that this product is combined with other materials or processed.
This product is used for industrial; therefore, any other use of the product which involves medical purpose and other process is responsibility of the user. Do not use the purpose of implant for human body or if there is any possibilities to remain in body.
The contents of this SDS are subject to change without notice due to new findings.
The content of this SDS does not determine delivery specifications or rules.

Test Report

No.: ETR24A01592 Date: 16-Oct-2024

Fuji Polymer Industries Co., LTD
175 Kajiyashiki-Cho Toyota-Shi Aichi 470-0533 Japan

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

Sample Submitted By	:	Fuji Polymer Industries Co., LTD
Sample Name	:	SARCON GR80B-00,0H-GY
Supplier	:	Fuji Polymer Industries Co., LTD
Country of Origin	:	Japan

==========

Sample Receiving Date	:	09-Oct-2024
Testing Period	:	09-Oct-2024 to 16-Oct-2024

Test Requested : 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).

Test Results : Please refer to following pages.

Conclusion : Based on the performed tests on selected part of 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: 7394EB59

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Fuji Polymer Industries Co., LTD
175 Kajiyashiki-Cho Toyota-Shi Aichi 470-0533 Japan

Test Part Description

No.1 : GRAY PAD (EXCLUDING THE DOUBLE RELEASE FILM)

Test Result(s)

Test Item(s)	Method	Unit	MDL	Result	Limit
				No.1	
Cadmium (Cd)	With reference to IEC 62321-5: 2013, analysis was performed by ICP-OES.	mg/kg	2	n.d.	100
Lead (Pb)	With reference to IEC 62321-5: 2013, analysis was performed by ICP-OES.	mg/kg	2	n.d.	1000
Mercury (Hg)	With reference to IEC 62321-4: 2013+ AMD1: 2017, analysis was performed by ICP-OES.	mg/kg	2	n.d.	1000
Hexavalent Chromium Cr(VI)	With reference to IEC 62321-7-2: 2017, analysis was performed by UV-VIS.	mg/kg	8	n.d.	1000
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.	1000
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.	1000

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Fuji Polymer Industries Co., LTD
175 Kajiyashiki-Cho Toyota-Shi Aichi 470-0533 Japan

Test Item(s)	Method	Unit	MDL	Result	Limit
				No.1	
Butyl benzyl phthalate (BBP)	With reference to IEC 62321-8: 2017, analysis was performed by GC/MS.	mg/kg	50	n.d.	1000
Dibutyl phthalate (DBP)		mg/kg	50	n.d.	1000
Di-(2-ethylhexyl) phthalate (DEHP)		mg/kg	50	n.d.	1000
Diisobutyl phthalate (DIBP)		mg/kg	50	n.d.	1000

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. 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.

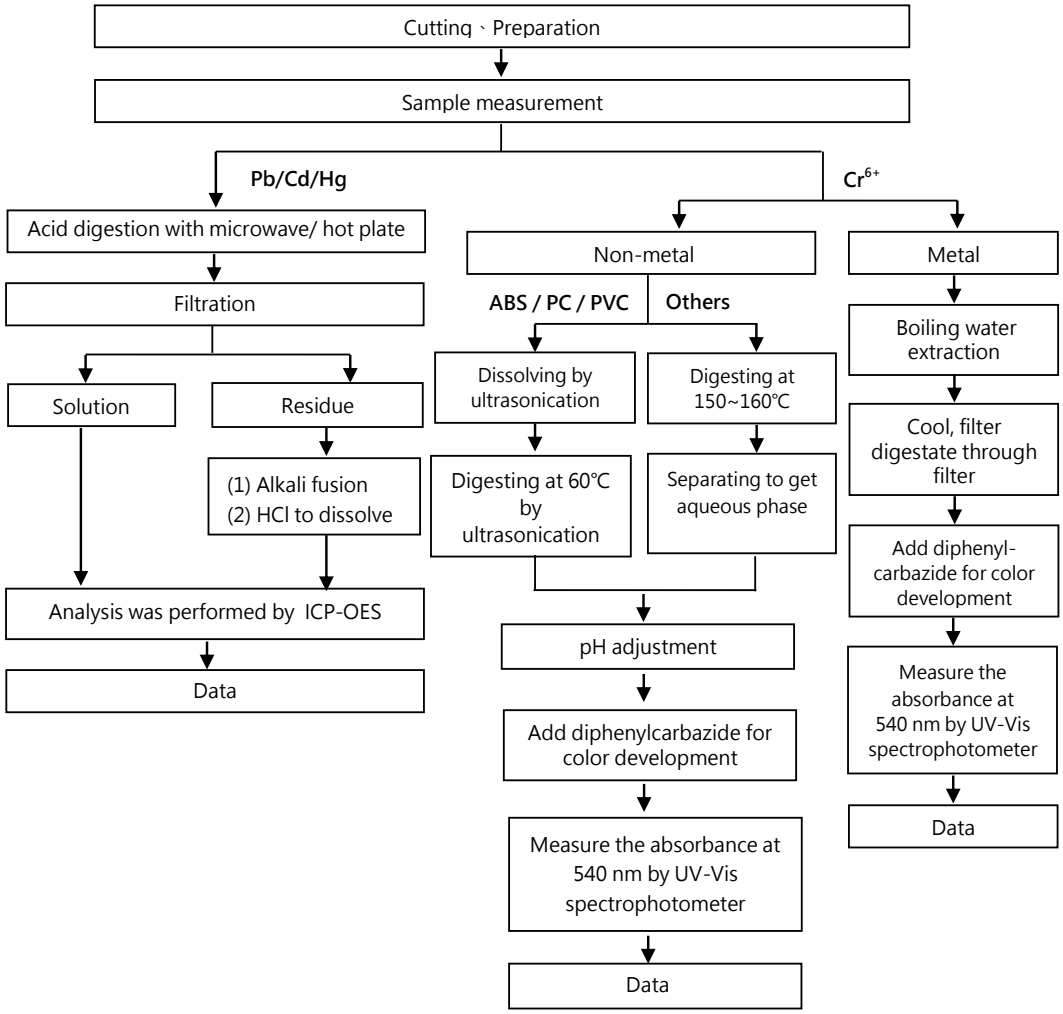
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Fuji Polymer Industries Co., LTD
175 Kajiyashiki-Cho Toyota-Shi Aichi 470-0533 Japan

Analytical flow chart of heavy metal

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

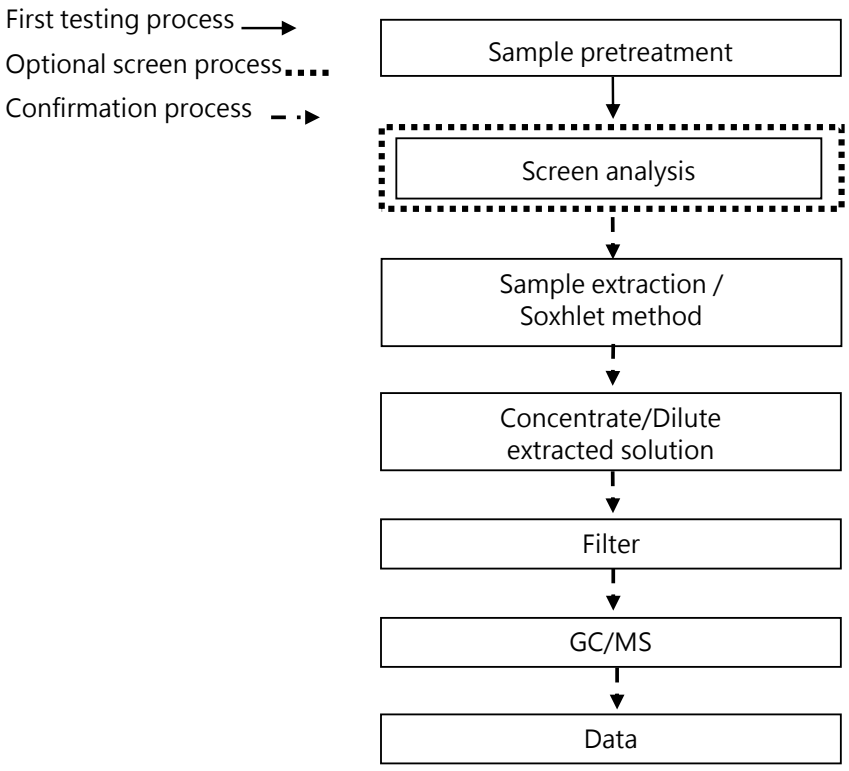
(Cr^{6+} test method excluded)



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Analytical flow chart – PBBs / PBDEs

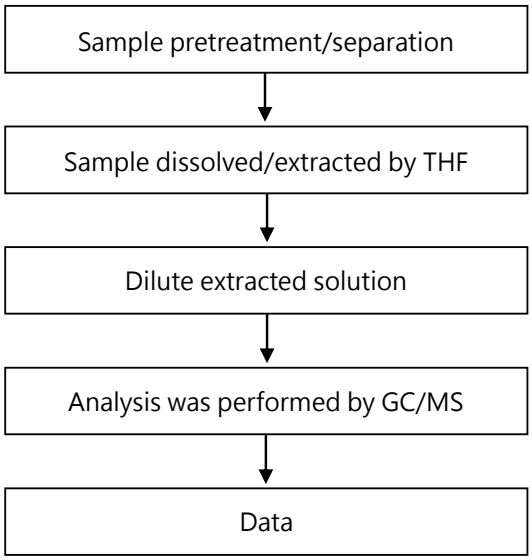


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Analytical flow chart - Phthalate

【Test method: IEC 62321-8】

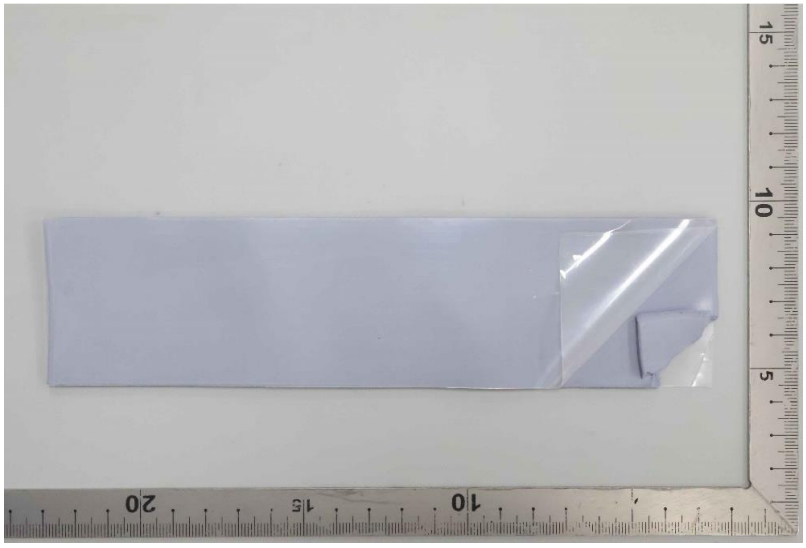


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Fuji Polymer Industries Co., LTD
175 Kajiyashiki-Cho Toyota-Shi Aichi 470-0533 Japan

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

ETR24A01592



** End of Report **

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Test Report

No.: ETR24405539 Date: 02-May-2024

Fuji Polymer Industries Co., LTD
175 Kajiyashiki-Cho Toyota-Shi Aichi 470-0533 Japan

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

Sample Submitted By	:	Fuji Polymer Industries Co., LTD
Sample Name	:	SARCON GR80B-00,0H-GY
Supplier	:	Fuji Polymer Industries Co., LTD
Country of Origin	:	Japan

==========

Sample Receiving Date	:	25-Apr-2024
Testing Period	:	25-Apr-2024 to 02-May-2024

Test Requested : 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

CHECK REPORT
PIN CODE: F3222E88

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Fuji Polymer Industries Co., LTD
175 Kajiyashiki-Cho Toyota-Shi Aichi 470-0533 Japan

Test Part Description

No.1 : GRAY PAD (EXCLUDING THE DOUBLE RELEASE FILM)

Test Result(s)

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.

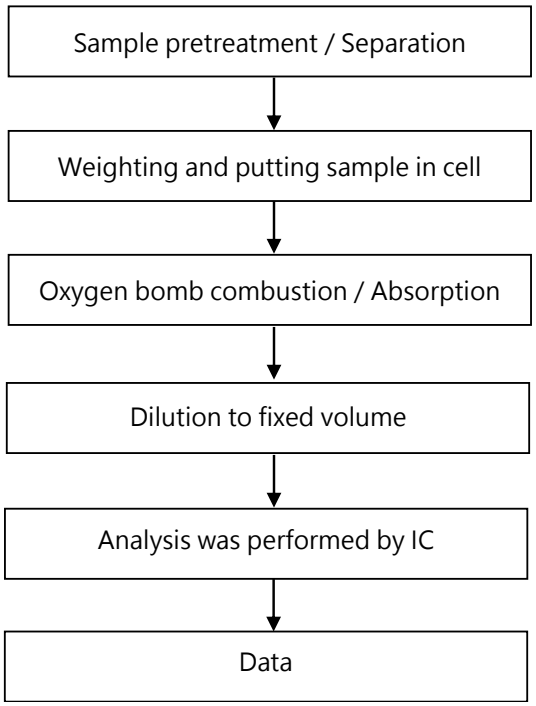
Note :

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

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Analytical flow chart - Halogen

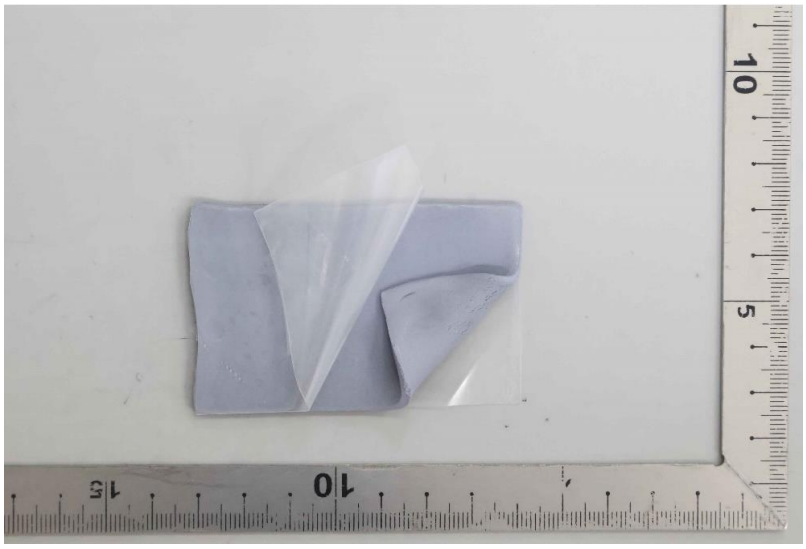


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175 Kajiyashiki-Cho Toyota-Shi Aichi 470-0533 Japan

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

ETR24405539



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Model SARCON GR80B-0

File Number: E58126

Yellow Card™

ALSO CERTIFIED TO IEC REQUIREMENTS

COMPANY

FUJI POLYMER INDUSTRIES CO LTD
175 Kajiyashiki-Cho
Toyota-Shi, Aichi 470-0533 Japan

MODEL INFO

SARCON GR80B-0
Silicone Rubber (SIR), furnished as sheets

FLAMMABILITY PROPERTIES	VALUE	TEST METHOD
Flammability		ANSI/UL 94
0.24 mm, Color: GY	V-0	
3.0 mm, Color: GY	V-0	

ISO/IEC FLAMMABILITY PROPERTIES	VALUE	TEST METHOD
Flammability		IEC 60695-11-10
0.24 mm, Color: GY	V-0	
3.0 mm, Color: GY	V-0	

ELECTRICAL PROPERTIES	VALUE	TEST METHOD
Hot-wire Ignition (HWI)		UL 746A
0.24 mm	PLC 4	
3.0 mm	PLC 0	
High Amp Arc Ignition (HAI)		UL 746A
0.24 mm	PLC 0	
3.0 mm	PLC 0	

Comparative Tracking Index (CTI)	PLC 0	UL 746A
High Voltage Arc Tracking Rate (HVTR)	PLC 0	
High Voltage, Low Current Arc Resistance	PLC 0	

THERMAL PROPERTIES	VALUE	TEST METHOD
Relative Thermal Index - Electrical Strength		UL 746B
0.24 mm	150 °C	
3.0 mm	150 °C	
Relative Thermal Index - Mechanical Impact		UL 746B
0.24 mm	150 °C	
3.0 mm	150 °C	
Relative Thermal Index - Mechanical Strength		UL 746B
0.24 mm	150 °C	
3.0 mm	150 °C	

Report Date: 2024-02-28
Revision Date: 2024-02-28

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