

Specification for Approval

緯穎料號

Part No : 47.64W45.001

Description : RUB HDD SIDE ISOLATOR POTENTIAL HU230

廠商型號

Part No : 47.64W45.001

Description : RUB HDD SIDE ISOLATOR POTENTIAL HU230

Issued Date :2013/3/21

技術文件
實力工程部

Approved Date :2013/3/21

Approved by (緯穎)	Approved by (vendor)	Prepared by (vendor)
Suki_Hsu 2013/3/21	胡洪州 2013/3/21	殷嘉彬 2013/3/21

實力電子有限公司

POTENTIAL ELECTRONIC CO.,LTD

地址：廣東省東莞市大嶺山大沙管理區

電話/TEL:86-769-85655661~3

傳真/FAX：86-769-85631557

E-Mail:julie@dgpotential.com

樣品出貨報告書

(Preliminary Specification For Approval)

客戶名稱(Customer Name): 緯穎科技服務股份有限公司

產品名稱(Product Name): 矽膠麥拉

客戶料號(Part No.): 47.64W45.001

材料 (Material): GSP2003D025A+GA835CN

送樣日期 (Delivery Date) : 2013.3.21

By：廠商/Supplier Site

承認/Approved	審核/Checked	作成/Author
胡洪洲	胡洪洲	殷嘉彬

技術文件
實力工程部

By:客戶/Customer Site

採購/Purchaser	品保/QC	研發/RD

目 錄/Conter

1. 產 品 圖 面 /Product Drawing
2. 尺 寸 量 測 報 告 /Mechanical Inspection Report
3. 包裝方式 /Specification of Package
4. 材料規格 /Individual Material Spection Repot
 - A · 材料特性表 /Property of Raw material
 - B · UL 認證資料 /UL Recognition
 - C · 物質安全質料表 /MSDS

技術文件
實力工程部

A

B

C

D

E

1

10±0.2

162.50±0.3

4-R2.00

2

0.30±0.05

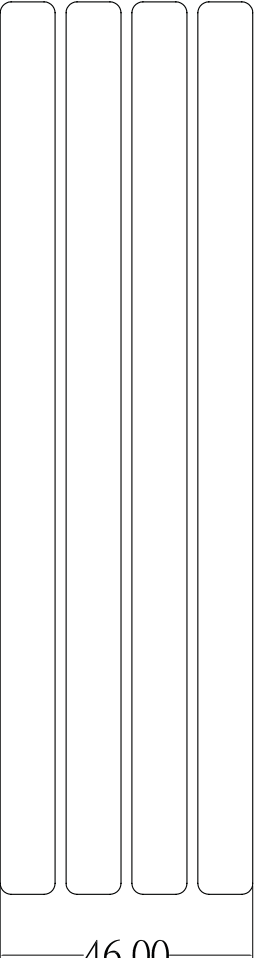


Adhesive

材質:KE951 GSP2003D025A(0.25T 黑色)+NITTO GA835CN(0.05T)

3

4



9

8

7

6

木板模 一模四穴

TOLERANCE	TABLE	50-100mm	± 0.30	MATERIAL		DRAWN	殷嘉彬	TITLE 名稱		實力電子(東莞)有限公司 POTENTIAL ELECTRONIC CO.,LTD			
0--20mm	± 0.20			THICKNESS		RECHECK		ITEM NO	47.64W45.001 MM209H230 120E				
20-50mm	± 0.25	100以上	± 0.50	COLOR		APPROVED	胡洪洲	DATE 日期	2013.3.19.	UNIT	mm	SCALE	1:1

F

G

H

I

J

5

0

樣品檢驗記錄表

檢驗日期:2013-3-21

客戶	緯穎	樣品材質	GSP2003D025A+GA835CN	送樣數量	100PCS
樣品料號	47.64W45.001	樣品硬度	/	檢驗方式	全檢
樣品品名	矽膠麥拉	樣品顏色	黑色	檢驗數量	5PCS

判定: PASS REJECT

NO	檢驗專案	判定	不良內容	NO	檢驗專案	判定	不良內容
1	材質檢查	OK		5	外觀檢查	OK	
2	硬度測試	/		6	阻抗測試	/	
3	顏色比對	OK		7	耐電壓測試	/	
4	尺寸測試	OK		8	粘性測試		

產品重點檢測

NO	規格值与公差	單位	檢測工具	測試結果記錄					判定
				樣品 1	樣品 2	樣品 3	樣品 4	樣品 5	
1	162.5±0.3	mm	CL	162.53	162.52	162.48	162.50	162.51	OK
2	10±0.2	mm	CL	10.02	10.01	9.99	9.98	10.02	OK
3	0.3±0.05	mm	CL	0.31	0.31	0.29	0.30	0.30	OK
4									
5									
6									
7									
8									
9									
10									
11									
12									
13									

技術文件
實力工程部

核準: 胡洪洲

審核: 胡洪洲

檢驗者: 殷嘉彬

包裝規範

產品圖示：



最少包裝：一模5穴X50大片=250PCS(包)



包裝說明：

- 1.產品包裝前必須片與片間疊放整齊。
- 2.包裝數量依左側圖示要求，不可多裝或短裝。
- 3.產品必須要封口包裝。
- 4.最少包裝數量：5PCS/1大片x50片=250PCS/包。
- 5.每箱產品數量由最終客戶訂單數量而訂。
- 6.包裝不可有破損髒污或是標籤質料填寫錯誤。
- 7.標籤字體必須是用電腦打印的，不可用手寫。

技術文件
實力工程部

KE-900系列產品 一般物性

品名	KE-931TU	KE-941U	KE-944U	KE-951U	KE-9510U	KE-971TU
物性						
SG	1.09	1.11	1.12	1.15	1.15	1.21
WP	145	190	195	235	240	355
HS(Durometer)	31	42	43	52	52	72
TS(Mpa)	6.9	7	8.1	8.8	8.6	8.6
EL(%)	740	450	550	380	350	270
TR-A(KN/m)	9.1	6	7	6.8	7.5	8
線收縮(%)	4.1	3.9	3.9	3.8	3.4	3.3
C-Set(%)	17	6.5	13	9	6.4	6.7
Rb(%)	57	74	70	70	72	49

物性試驗依據(JIS K6249)

加硫劑：C-8/2.0phr

成型條件：press cure 165°C/10min

post cure 200°C/4hrs

C-set成型條件：press cure 165°C/15min

post cure 200°C/4hrs

C-set試驗條件：150°C/22hrs

*1：180°C/22hrs





General Silicones Co., Ltd.

NO.7, 52ND LANE, NAN-KANG ST., HSIANG-SHAN, HSIN-CHU CITY, TAIWAN
TEL: 886 3 537-2181 FAX: 886 3 537-3016

Oct. 31, 2012

Subject: GSP2000系列 用料聲明

客戶：all user

茲聲明本公司(通用矽酮股份有限公司)所生產遮光片(料號GSP2000系列包含GSP2003D/GSP2003G/GSP2018D/GSP2018G/GSP2103D/GSP2118D/GSP2003W/GSP2018W)之主要原料為TSE221-5U對應KE951U屬於同等品! 附上物性供參考。

此證



General Silicones Co. Ltd
Phone: +886 3 5372181
Fax: +886 3 5377508

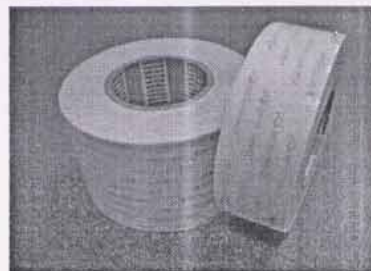
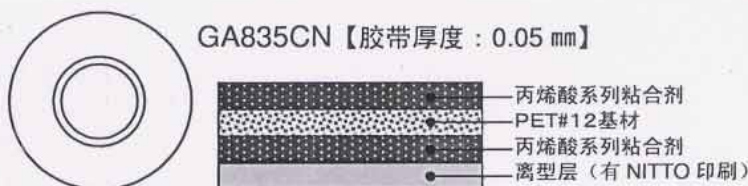
双面粘合胶带

GA835CN

概 要

GA835CN 是为手机产品的零部件固定而开发的双面粘合胶带。
其设计上兼顾了初粘性和持粘性的合理均衡。
适用于塑料板、标牌、金属箔等各种片材的粘接。
GA835CN 是由日东电工（上海松江）有限公司开发的产品。

胶带结构



特 点

- 具有优良的初粘性和持粘性。
- 对于各种被粘体均有优良的粘合性。
- 具有优良的可加工性和剥离性。
- 符合 ROHS 法规要求。

用途例

- 金属，塑料零件的固定
- 标示标牌的固定

尺 寸

产品号码	胶带厚度 (mm)	宽度 (mm)	长度 (M)
GA835CN	0.05	5~1,200	50

具体尺寸请与本公司营业担当人员联系。

GA835CN 1/4
10-P-0244

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日東電工株式会社

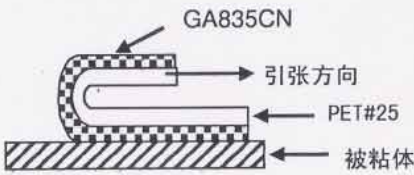
特 性

●180° 反向剥离时粘着力—各被粘体

被粘体	GA835CN
不锈钢板	10
铝 板	10
PP 板	4
ABS 板	9
压克力板	11
PSt 板	10
PC 板	11
PET 板	

(单位: N/20mm)
贴里材料: PET#25
剥离速度: 300mm/min (压贴 30 分钟后测定)
剥离角度: 180°
测定温度: 23℃/50%RH
压贴条件: 2kg 滚筒来回压贴 1 往复

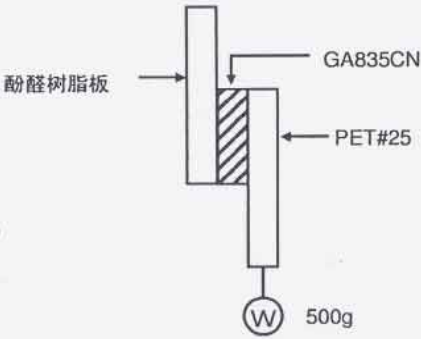
＜试验方法＞



●保持力 —各温度—

测定温度	GA835CN
4 0℃	0.2
6 0℃	0.3
8 0℃	0.4

(单位: mm/hr)
测定温度: 40,60,80℃
粘贴面积: 20mm x 10mm
荷 重 : 500g



技術文件
實力工程部

GA835CN 2/4
10-P-0244

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特 性

● 剪切力—各被粘体

被粘体	GA835CN
不锈钢板	350
铝板	300
ABS 板	250
PP 板	250
PSt 板	250

(单位：N/20mmx20mm)

贴合面积：20 x 20mm

压贴方法：用 5kg 滚筒来回 1 次

压贴温度：23°C/50%RH

放置条件：23°C/50%RH × 30min

拉伸速度：50mm/min

测定条件：23°C/50%RH



技術文件
實力工程部

GA835CN 3/4
10-P-0244

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使用注意事项

- 使用本品前，先将被粘贴物表面的油分、水分、尘土等杂质清除干净。
- 本品为压敏性粘合材料，因此使用本品时，要给予充分的压力。如果压贴不充分，将会对粘接效果及外观带来不良影响。
- 对用于凹凸以及歪斜变形较严重的表面进行粘贴时，可能会影响粘接效果。因此请尽量使被贴表面平整后再粘贴。
- 胶带本身的粘合力需要一定的时间后才能充分发挥，因此在粘贴后至少在几小时内，请注意粘贴面不要承受较大的压力。

保管注意事项

- 请务必放置于专用盒内保管。
- 选择避免阳光直射的阴暗场所进行保管。

安全注意事项

⚠ 注 意
<ul style="list-style-type: none">●使用本产品时，请事先对用途(目的·条件)适合与否进行充分确认。 不同的被粘贴物以及不同的粘贴条件，有可能出现剥离现象。●在可能发生事故的地方使用时，请与其他的粘接方法同时使用。

2011 年 4 月发行

技術文件
實力工程部

GA835CN 4/4
10-P-0244

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QMFZ2.E231581 Plastics - Component

Additional information regarding this certification can be found in UL's iQ Family of Databases (iq.ul.com).

NEW -- for additional information concerning the individual material, click on the material designation.

[Page Bottom](#)

Plastics - Component

[See General Information for Plastics - Component](#)

MOMENTIVE PERFORMANCE MATERIALS (SHANGHAI) CO LTD

WAIGAOQIAO FREE TRADE ZONE

56 AIDU RD

200131 SHANGHAI, CHINA

E231581

										H	D	
		Min.		H	H	RTI		V	4	C		
		Thk	Flame	W	A	Elec	Mech	T	9	T		
Material Dsg	Color	mm	Class	I	I		Imp	Str	R	5	I	
Silicone (SI), furnished as uncured rubber and one or two component catalyst.												
TSE221-3U, TSE221-7U, TSE221-8U												
	ALL	1.3	HB	-	-	150	-	150	-	-	-	
TSE221-4U, TSE221-5U, TSE221-6U												
	CL	0.73	HB	-	-	150	-	150	-	-	-	
	ALL	1.98	HB	-	-	150	-	150	-	-	-	
TSE2277U	NC	1.0	HB	-	-	150	-	150	-	-	-	
		3.0	HB	-	-	150	-	150	-	-	-	
XE20-6016US	CL	1.0	HB	-	-	150	-	150	-	-	-	
		3.0	HB	-	-	150	-	150	-	-	-	
Silicone Molding Resin (SIR), furnished as plaque.												
SILPLUS 40MP	NC	1.0	HB	-	-	150	-	150	-	-	-	
SILplus 50MP	NC	1.0	HB	-	-	150	-	150	-	-	-	
SILPLUS 60MP	NC	1.0	HB	-	-	150	-	150	-	-	-	
SILPLUS 70MP	NC	1.0	HB	-	-	150	-	150	-	-	-	

Marking: Company name and material designation on container, wrapper or finished part.

Last Updated on 2011-03-11

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PGGU2.MH13557
Marking and Labeling System Materials - Component

Page Bottom

Marking and Labeling System Materials - Component

See General Information for Marking and Labeling System Materials - Component

NITTO DENKO CORP
18 AZA HIRAYAMA
NAKAHARA-CHO
TOYOHASHI-SHI, AICHI-KEN 441-3194 JAPAN

MH13557

Pressure-sensitive laminating adhesives:

Model No.	Face Stock	Face Stock Thk (mm)	Application Surface	Max Temp (°C)	Min Temp (°C)	Indoor Use	Outdoor Use	Additional Conditions
500, 500B, 500A, 500AB, 500WH, 500BWH, 500AWH, 500ABWH								
	Aluminum	0.050 - 0.81	Aluminum	150	-40	X	X	-
		0.050 - 0.81	Galvanized steel	150	-40	X	X	-
		0.050 - 0.81	Acrylonitrile butadiene styrene	80	-40	X	X	-
		0.050 - 0.81	Polypropylene	80	-40	X	X	-
		0.050 - 0.81	Polyethylene terephthalate	60	-40	X	-	-
		0.050 - 0.81	Polystyrene	60	-40	X	X	-
5000NSU, 5000NS, 5000NSWH								
	Aluminum	0.050	Aluminum	150	-29	X	-	-
		0.050	Acrylonitrile butadiene styrene	80	-29	X	-	-
		0.050	Polyethylene terephthalate	80	-29	X	-	-
		0.050	Polypropylene	80	-29	X	-	-
		0.050	Polystyrene	60	-29	X	-	-
Stainless steel		0.050	Aluminum	150	-29	X	-	-
		0.050	Acrylonitrile butadiene styrene	80	-29	X	-	-
		0.050	Polyethylene terephthalate	80	-29	X	-	-
		0.050	Polypropylene	80	-29	X	-	-
		0.050	Polystyrene	60	-29	X	-	-

技術文件
實力工程部

5015U, 5015							
Aluminum	0.050	Aluminum	150	-29	X	-	-
	0.050	Acrylonitrile butadiene styrene	80	-29	X	-	-
	0.050	Polyethylene terephthalate	80	-29	X	-	-
	0.050	Polypropylene	80	-29	X	-	-
	0.050	Polystyrene	60	-29	X	-	-
Stainless steel	0.050	Aluminum	150	-29	X	-	-
	0.050	Acrylonitrile butadiene styrene	80	-29	X	-	-
	0.050	Polyethylene terephthalate	80	-29	X	-	-
	0.050	Polypropylene	80	-29	X	-	-
	0.050	Polystyrene	60	-29	X	-	-
503N							
Aluminum	0.050 - 0.81	Aluminum	150	-40	X	X	-
	0.050 - 0.81	Galvanized steel	150	-40	X	X	-
	0.050 - 0.81	Acrylonitrile butadiene styrene	80	-40	X	X	-
	0.050 - 0.81	Polypropylene	80	-29	X	X	-
	0.050 - 0.81	Polystyrene	60	-40	X	X	-
5713							
Aluminum	0.050	Acrylonitrile butadiene styrene	60	-40	X	-	-
	0.050	Aluminum	60	-40	X	-	-
	0.050	Stainless steel	60	-40	X	-	-
Stainless steel	0.050	Acrylonitrile butadiene styrene	60	-40	X	-	-
	0.050	Aluminum	60	-40	X	-	-
	0.050	Stainless steel	60	-40	X	-	-
591							
Aluminum	0.050 - 0.81	Aluminum	175	-40	X	X	-
	0.050 - 0.81	Galvanized steel	175	-40	X	X	-
	0.050 - 0.81	Acrylonitrile butadiene styrene	80	-40	X	X	-
	0.050 - 0.81	Polypropylene	80	-40	X	X	-
	0.050 - 0.81	Polystyrene	60	-40	X	X	-
5919							

Stainless steel	0.050	Aluminum	150	-29	X	-	-
	0.050	Acrylonitrile butadiene styrene	80	-29	X	-	-
	0.050	Polyethylene terephthalate	80	-29	X	-	-
	0.050	Polystyrene	60	-29	X	-	-
5919ML, 5919MLW							
Aluminum	0.050	Aluminum	150	-40	X	-	-
	0.050	Epoxy	150	-40	X	-	-
	0.050	Polyimide	150	-40	X	-	-
	0.050	Stainless steel	150	-40	X	-	-
	0.050	Polyethylene-naphthalate	125	-40	X	-	-
	0.050	Acrylonitrile butadiene styrene	80	-40	X	-	-
	0.050	Polyethylene terephthalate	80	-40	X	-	-
	0.050	Polystyrene	60	-40	X	-	-
GA5903							
Aluminum	0.050	Aluminum	150	-40	X	-	-
	0.050	Stainless steel	150	-40	X	-	-
	0.050	Acrylonitrile butadiene styrene	80	-40	X	-	-
	0.050	Polyethylene terephthalate	80	-40	X	-	-
	0.050	Polycarbonate	60	-40	X	-	-
GA5905							
Aluminum	0.050	Aluminum	150	-40	X	-	-
	0.050	Stainless steel	150	-40	X	-	-
	0.050	Acrylonitrile butadiene styrene	80	-40	X	-	-
	0.050	Polyethylene terephthalate	80	-40	X	-	-
	0.050	Polycarbonate	60	-40	X	-	-
GA606, GA608							
Aluminum	0.050	Aluminum	150	-29	X	-	-
	0.050	Acrylonitrile butadiene styrene	80	-29	X	-	-
	0.050	Polycarbonate	80	-29	X	-	-
	0.050	Polyethylene terephthalate	80	-29	X	-	-
	0.050	Polypropylene	80	-29	X	-	-
	0.050	Polystyrene	60	-29	X	-	-
Stainless steel	0.050	Aluminum	150	-29	X	-	-

	0.050	Acrylonitrile butadiene styrene	80	-29	X	-	-
	0.050	Polycarbonate	80	-29	X	-	-
	0.050	Polyethylene terephthalate	80	-29	X	-	-
	0.050	Polypropylene	80	-29	X	-	-
	0.050	Polystyrene	60	-29	X	-	-
GA808, 5114							
Aluminum	0.050	Aluminum	150	-29	X	-	-
	0.050	Acrylonitrile butadiene styrene	80	-29	X	-	-
	0.050	Polyethylene terephthalate	80	-29	X	-	-
	0.050	Polypropylene	80	-29	X	-	-
	0.050	Polystyrene	60	-29	X	-	-
Stainless steel	0.050	Aluminum	150	-29	X	-	-
	0.050	Acrylonitrile butadiene styrene	80	-29	X	-	-
	0.050	Polyethylene terephthalate	80	-29	X	-	-
	0.050	Polypropylene	80	-29	X	-	-
	0.050	Polystyrene	60	-29	X	-	-
GA835							
Aluminum	0.05	Acrylonitrile butadiene styrene	80	-29	X	-	-
	0.05	Polyethylene terephthalate	80	-29	X	-	-
	0.05	Polypropylene	80	-29	X	-	-
	0.05	Polystyrene	60	-29	X	-	-
Stainless steel	0.05	Acrylonitrile butadiene styrene	80	-29	X	-	-
	0.05	Polyethylene terephthalate	80	-29	X	-	-
	0.05	Polypropylene	80	-29	X	-	-
	0.05	Polystyrene	60	-29	X	-	-
GA835CN							
Aluminum	0.050	Acrylonitrile butadiene styrene	80	-29	X	-	-
	0.050	Aluminum	80	-29	X	-	-
	0.050	Polycarbonate	80	-29	X	-	-
	0.050	Polyethylene terephthalate	80	-29	X	-	-
	0.050	Polypropylene	80	-29	X	-	-
	0.050	Polystyrene	60	-29	X	-	-
Stainless steel	0.050	Acrylonitrile butadiene styrene	80	-29	X	-	-

技術文件
實力工程部

	0.050	Aluminum	80	-29	X	-	-
	0.050	Polycarbonate	80	-29	X	-	-
	0.050	Polyethylene terephthalate	80	-29	X	-	-
	0.050	Polypropylene	80	-29	X	-	-
	0.050	Polystyrene	60	-29	X	-	-
GA907							
Aluminum	0.050	Aluminum	150	-40	X	-	-
	0.050	Acrylonitrile butadiene styrene	80	-40	X	-	-
	0.050	Polyethylene terephthalate	80	-40	X	-	-
	0.050	Polypropylene	80	-40	X	-	-
	0.050	Polystyrene	60	-40	X	-	-
GA937							
Aluminum	0.050	Acrylonitrile butadiene styrene	80	-40	X	-	-
	0.050	Aluminum	80	-40	X	-	-
	0.050	Polyethylene terephthalate	80	-40	X	-	-
	0.050	Polypropylene	80	-40	X	-	-
	0.050	Polystyrene	60	-40	X	-	-
LA-50, LA-100							
Stainless steel	0.05	Nickel plated metal	100	-40	X	-	-
	0.05	Stainless steel	100	-40	X	-	-
No. 5000E							
Aluminum	0.050 - 0.050	Aluminum	150	-40	X	-	-
	0.050 - 0.050	Galvanized steel	150	-40	X	-	-
	0.050 - 0.050	Acrylic	80	-40	X	-	-
	0.050 - 0.050	Acrylonitrile butadiene styrene	80	-40	X	-	-
	0.050 - 0.050	Polycarbonate	80	-40	X	-	-
	0.050 - 0.050	Polyethylene terephthalate	80	-40	X	-	-
	0.050 - 0.050	Polypropylene	80	-40	X	-	-
	0.050 - 0.050	Polystyrene	60	-40	X	-	-
No. 57120B							
Aluminum	0.050 - 0.050	Acrylic	60	-29	X	-	-
	0.050 - 0.050	Aluminum	60	-29	X	-	-

技術文件

實力工程部

	0.050 - 0.050	Glass	60	-29	X	-	-
	0.050 - 0.050	Polycarbonate	60	-29	X	-	-
	0.050 - 0.050	Stainless steel	60	-29	X	-	-
NO.5610							
Aluminum	0.050	Aluminum	60	-29	X	-	-
	0.050	Galvanized steel	60	-29	X	-	-
	0.050	Glass	60	-29	X	-	-
	0.050	Polycarbonate	60	-29	X	-	-
	0.050	Stainless steel	60	-29	X	-	-
No.57120SB							
Aluminum	0.050	Acrylic	60	-29	X	-	-
	0.050	Aluminum	60	-29	X	-	-
	0.050	Glass	60	-29	X	-	-
	0.050	Polycarbonate	60	-29	X	-	-
	0.050	Stainless steel	60	-29	X	-	-
VR-5300, VR-5300H							
Aluminum	0.050	Acrylonitrile butadiene styrene	80	-40	X	-	-
	0.050	Aluminum	80	-40	X	-	-
	0.050	Polyethylene terephthalate	80	-40	X	-	-
	0.050	Polypropylene	80	-40	X	-	-
	0.050	Polystyrene	60	-40	X	-	-

Pressure-sensitive unprinted label stocks:

Model No.	Application Surface	Max Temp (°C)	Min Temp (°C)	Indoor Use	Outdoor Use	Additional Conditions
AS-020PB11N						
	Aluminum	60	-29	X	-	-
	Galvanized steel	60	-29	X	-	-
	Glass	60	-29	X	-	-
	Polycarbonate	60	-29	X	-	-
	Stainless steel	60	-29	X	-	-

Note: Application surfaces are smooth, flat, and rigid unless otherwise specified. Labels suitable for application to two or more plastic or painted surfaces are considered suitable for blends of those plastics or paints, with Conditions of Acceptability common to the individual components in the blend.

Marking: Company name or tradename "NITTO DENKO CORPORATION", "NITTO TAPE" or trademark

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and

model designation.

Last Updated on 2012-08-23

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General Silicones Co., Ltd.

No. 7, Lane 52, Nan-Kang St.,
Hsiang-Shan, Hsin-Chu City,
Taiwan, R.O.C.

Page 1 of 4

Product Safety Data Sheet

1. Product and company identification

Product Number	GSP series
Other/Generic Names	Silicone Rubber Spacer

Manufacturer:

General Silicones Co., Ltd.
No. 7, Lane 52, Nan-Kang St., Hsiang-Shan,
Hsin-Chu City, Taiwan, R.O.C.



2. Composition/information on ingredients

Ingredient Names	CAS#	Weight %
Vinyl stopped Polydimethylsiloxane	68083-18-1	40~90
Silica	7631-86-9	7~30
Dimethylpolysiloxane	70131-67-8	0.7~5
Water	7732-18-5	0.7~5
Polyethylene terephthalate film (PET)	25038-59-9	1.6~30

3. Hazards identification

Emergency Overview

Potential Health Hazards:

SKIN: This product is not hazardous in case of skin contact (irritant, sensitizer).

EYES: Not a likely route of entry

INHALATION: Not a likely route of entry

INGESTION: Not a likely route of entry

DELAYED EFFECTS: None known

Ingredients found on one of the OSHA-designated carcinogen lists are listed below:

Ingredient Name	NTP Status	IARC Status	OSHA Standard
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MSDS GSP SERIES



General Silicones Co., Ltd.

No. 7, Lane 52, Nan-Kang St.,
Hsiang-Shan, Hsin-Chu City,
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Page 2 of 4

N/A	N/A	N/A	N/A
-----	-----	-----	-----

4. FIRST AID MEASURES

N/A for material as supplied at room temperature.

5. FIRE FIGHTING MEASURES

FLASH POINT:	N/A
FLAMMABLE LIMITS IN AIR (% BY VOL)	N/A, solid material
EXTINGUISHING MEDIA:	Use media appropriate to primary source of fire.
UNUSUAL FIRE HAZARDS:	Combustible but not readily ignited. Burning is accompanied with melting and dripping which may cause the fire to spread. Combustion will evolve irritant vapors.

6. ACCIDENTAL RELEASE MEASURES

N/A, solid material

7. HANDLING AND STORAGE

Store and handle using good warehouse practices. Avoid high humidity and keep away from heat and sources of ignition.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

ENGINEERING CONTROLS:	N/A
PERSONAL PROTECTIVE EQUIPMENT	
RESPIRATORY PROTECTION:	Use appropriate NIOSH-approved respirator in presence of decomposition fumes or dust.
EYES AND FACE:	Use of safety glasses is recommended.
HANDS, ARMS, AND BODY:	N/A
OTHER CLOTHING AND EQUIPMENT:	N/A



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Hsiang-Shan, Hsin-Chu City,
Taiwan, R.O.C.

Page 3 of 4

Exposure Guidelines

Guidelines exist for the following ingredients:

Ingredient Name	ACGIH TLV	OSHA PEL	Other limit
N/A	N/A	N/A	N/A

Other exposure limits for the decomposition products normally associated with product use are as follows.: N/A.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE	Opaque gray
PHYSICAL STATE:	Solid
MOLECULAR WEIGHT:	N/A
CHEMICAL FORMULA:	N/A
ODOR:	Odorless
SPECIFIC GRAVITY:	N/D
SOLUBILITY IN WATER:	Insoluble
PH:	N/A
BOILING POINT:	N/A
MELTING POINT:	N/A
VAPOR PRESSURE:	N/A
VAPOR DENSITY:	N/A
% VOLATILES:	N/D
FLASH POINT:	N/A

(N/D = not determined, N/A = not applicable)

10. STABILITY AND REACTIVITY

NORMALLY STABLE?	Stable
INCOMPATIBILITIES:	Strong oxidizing agent
HAZARDOUS	
DECOMPOSITION PRODUCTS:	Under commonly recommended conditions



General Silicones Co., Ltd.

No. 7, Lane 52, Nan-Kang St.,
Hsiang-Shan, Hsin-Chu City,
Taiwan, R.O.C.

Page 4 of 4

	decomposition is not anticipated.
HAZARDOUS POLYMERIZATION?	Hazardous polymerization will not occur.

11. TOXICOLOGICAL INFORMATION

IMMEDIATE (ACTUE) EFFECTS:	No acute effects have been identified.
DELAYED (SUBCHRONIC AND CHRONIC) EFFECTS:	No delayed or chronic effects have been identified.
OTHER DATA:	N/A

12. ECOLOGICAL INFORMATION

These materials are chemically unreactive, non-toxic, non-water soluble, and non-biodegradable.

13. DISPOSAL CONSIDERATIONS

OTHER DISPOSAL CONSIDERATIONS:

Dispose in an approved landfill or by incineration, in compliance with federal, state, and local regulations.

14. TRANSPORT

US DOT HAZARD CLASS: N/A

US DOT ID NUMBER: N/D

PACKAGING INFORMATION: Using the cartons, pallet and paper core.



15. REGULATORY INFORMATION

USER: Not classified as hazardous to users

TRANSPORT: Not classified as hazardous for transport

16. OTHER INFORMATION

CURRENT ISSUE/REVIEW DATE: July 20, 2009

PUBLISHED BY: QUALITY ASSURANCE DEPARTMENT, GENERAL SILICONES CO., LTD.

Material Safety Data Sheet

Date:2011.4.20

1. Product and company identification

Product name : Double coated adhesive tape
Name of product : GA835CN
Supplier product code:

Company identification
Name of supplier : NITTO DENKO(SHANGHAI SONGJIANG)CO.,LTD
ZIP code: 201613
Address : 716 LIANYANG ROAD SONGJIANG INDUSTRIAL ZONE
SONGJIANG SHANGHAI CHINA
A section in charge : QUALITY MANAGEMENT DEPT.
Telephone number : 86-021-5774-2184
Fax number/e-mail : 86-021-5774-2185
Emergency telephone number: 86-021-5774-2184
Recommended use or Limitations on use: Recommended use: For bonding nameplates, metal sheets,
Fix the Hardware of mobile, such as LCD plate.

2. Hazards identification

Adverse human health effects: No data
Physical and chemical hazards: No data
Specific hazards: No data

3. Composition / information on ingredients

Substance or Mixture: Article (The said product is an article material and not a chemical one which MSDS is required officially)

The common chemical name or the generic name	Acrylic adhesive	Polyester film	Release liner
Synonyms	Adhesive	Base material	Release liner
EINECS / REACH Registration No:			

4. First-aid measure

Inhalation : Generally, no possibility of inhalation.
Skin contact : wash it out with large amount of water and soap. when a skin rash is developed. Consult a doctor immediately.



Eye contact :	Immediately wash it off with running water for more than 16 minutes. Consult a doctor if necessary.
Ingestion :	Immediately induce vomiting and then consult a doctor.
The most important symptoms and effects:	no information available.
Protection of first-aiders:	no information available.
Special notes to a physician:	no information available.

5. Fire-fighting measure

Extinguishing media:	Bags of water, ABC multi-purpose extinguisher, powder extinguisher, CO ₂ extinguisher.
NOT suitable extinguishing media:	No information available.
Specific hazards:	No information available.
Specific methods:	No information available.
Protection of fire-fighters:	Wear respirator or eye protection if needed.

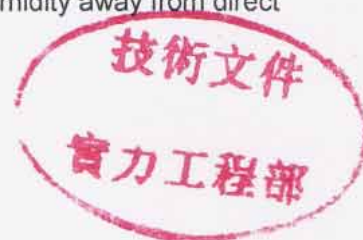
6. Accidental release measures

Personal precautions:	Will not occur. Not specified.
Protective equipment and emergency measures:	Will not occur. Not specified.
Environmental precautions:	Will not occur. Not specified.
Method and materials for containing:	Will not occur. Not specified.

7. Handling and storage

Handling	
Technical measures:	Not specified.
Local and general ventilation:	Not required for use in normal temperature. Provide adequate ventilation when performing high-temperature processing.
Precaution:	Use caution and protective gloves to avoid cuts with edges of tape liners.
Safe handling advice (avoidance of contact):	Not specified.
Storage	
Technical measures:	Not specified.
Suitable storage conditions:	Store at room temperature and normal humidity away from direct sunlight
Storage conditions to be avoided:	Avoid store at high temperatures.
Incompatible products:	Not data.
Packaging materials:	Shipping package

8. Exposure controls / personal protection



Standard control concentration:	Not specified.
Control parameters:	Not specified.
Engineering measures:	Not required.
Personal protective equipment	
Respiratory protection:	Not required.
Hand protection:	Not required.
Eye protection:	Not required.
Skin and body protection:	Not required.
Hygiene measures:	Normally not required.

9. Physical and chemical properties

Form:	Roll type(Article)
Color:	adhesive: Unclear yellow
Odor:	Nothing particular
pH:	No data available.
Fusing point:	No data available.
Boiling point:	No data available.
Boiling range:	No data available.
Flash point:	No data available.
Spontaneous ignition temperature:	No data available.
The upper and lower limit of ignition or explosion range:	No data available.
Vapor pressure:	No data available.
Vapor density:	No data available.
Weight:	About 167g/m ²
Solubility:	Insoluble in water.
Octanol / water partition coefficient:	No data available.
Decomposition temperature:	No data available.
Other data:	Inflammability

10 .stability and reactivity

Stability:	Stable under normal conditions of use and storage.
Hazardous stability:	No data available.
Condition to avoid:	Not specified.
Incompatible products:	No information available.
Hazardous decomposition products:	No information available.

11. Toxicological information

Acute toxicity:	No information available.
Skin corrosion property/	No information available.
Stimulativeness:	
Critical damage and stimulativeness to eye:	No information available.
Respiratory organs sensitization or skin sensitization:	No information available.
Generative cell mutagenicity:	No information available.
Carcinogenicity:	No information available.



Reproductive toxicity:	No information available.
Specified target organ / general toxicity – single exposure:	No information available.
Specified target organ / general toxicity – repetitive exposure:	No information available.
Aspiration respiratory organs hazard:	No information available.

12. Ecological information

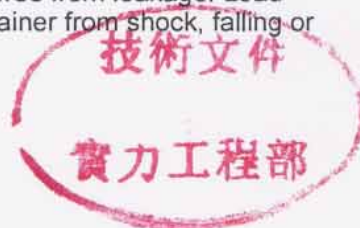
Persistence/ degradability:	No information available.
Bioaccumulation :	No information available.
Mobility in soil :	No information available.
Other hazardous effect :	No information available.

13. Disposal considerations

Waste from residues:	Dispose of the products industrial waste. When burning it, use an incinerator which satisfies its technical guidelines(the residence time is 2 seconds or more at a temperature of 800℃ or more). Contact an authorized industrial waste treatment company for off-site disposal.
Contaminated: Package:	Contact a recycling manufacture.

14. Transport information

Land:	<ul style="list-style-type: none"> Follow the general cautions in the section "Handling and Storage. Make sure the container is free from leakage. Load pearly to prevent the container from shock, falling or breaking.
Inland waterways:	<ul style="list-style-type: none"> Follow the general cautions in the section "Handling and Storage. Make sure the container is free from leakage. Load pearly to prevent the container from shock, falling or breaking.
Sea:	<ul style="list-style-type: none"> Follow the general cautions in the section ; Handling and Storage. Make sure the container is free from leakage. Load pearly to prevent the container from shock, falling or breaking.
Air:	<ul style="list-style-type: none"> Follow the general cautions in the section ; Handling and Storage. Make sure the container is free from leakage. Load pearly to prevent the container from shock, falling or breaking.
The UN classification number:	Not correspond.



Specific precautionary transport measures and conditions:

Avoid prolonged outside storage in high temperature.

15. Regulatory information

Local regulation:

Fire Service Act: Designated inflammables
(Synthetic resins: Others)

16. Other information

1. Handle this product with great care, since the evaluation of it's danger and toxicity may not be sufficient.
2. The above information is based on the most up-to-date, yet the values of content and physical / chemical properties are not guaranteed.
3. The cautionary statements are applicable for ordinary handling only. For special handling. Please devise safety measures appropriate for the use.

