苏州柯裕电子材料有限公司

SuZhou Keyu Electronic Materials Co.,Ltd

承 认 书

客　户:　　钰纬科技

(CUSTOMER)

品　名:　　Q#I/O LABEL (RUG55,65,PHILIPS,BLACK)

(Parts Name)

料　号:　　3MD664L2020(M3489)

(Stuff No.)

日　期:　　2026年10月19日

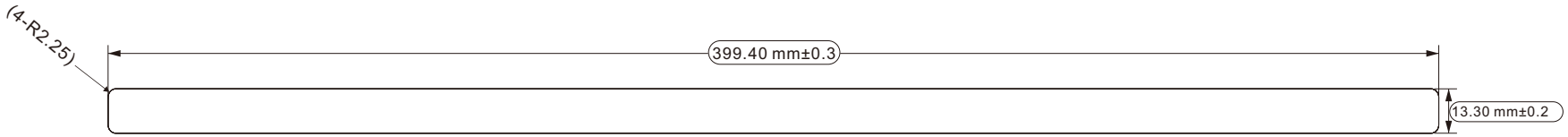
(DATE)

設計驗證工程課 2026-10-27 發行

工　程	品　保	审　核
关成凯	薛晓兰	曹小峰

苏州柯裕电子材料有限公司 工程专用章

REV.	DATE	DESCRIPTION	BY	APVD



3MD664L2020
Text color: White
Background color: Pantone Black C
Font: Arial



Note:
1.材質：LEXAN 8B35 (t=0.25mm)
2.單面背膠3M 9448(t=0.15mm)
3.材質+背膠總厚度t=0.4mm±0.05mm
4.須符合RoHS
5.顏色、尺寸參照承認樣品
6.檢驗規範文件編號QWI-016

4K.64602.002

設計驗證工程課
2026 -10- 27
發行

RANGE OF DIMENSION	TOLERANCE CLASS DESIGNATION		
		V	
	f	m	c
UP TO 30	±0.10	±0.20	±0.50
ABOVE 30~120	±0.15	±0.30	±0.80
ABOVE 120~315	±0.20	±0.50	±1.20
ABOVE 315~1000	±0.30	±0.80	±2.00
ANGLE±1° (±1.75/100)			

THIRD ANGLE PROJECTION	UNITS: mm	SCALE: 1/1	SHEET: 1/1	MODEL NO.: COMMON
	MATERIAL: See Notes		TREATMENT: See Notes	
DSGD by ALICIA	2023/07/07	PART NAME: I/O LABEL		
APVD by		PART NO.: 3MD664L2xxx		VER. 0
APVD NO.:	FILE NAME: 3MD664L2xxx.cdr	DIVA Laboratories ,Ltd.		

Qisda

Model Name:	**3MD664L2020**			**Sample Approval Sheet NO.:**	
Part Name:	**3MD664L2020 IO LABEL(不含Daughter BD)**			**Material:**	PC8B35 T=0.25mm+3M9448A
Part Number:	**4K.64602.002**	**Rev. #**	**A**	**Color:**	黑色
Vendor:	**KEYU**			**Date:**	**2023/11/12**

Inspection Gauge:

Caliper	(C)	Thickness Gauge	(T)	Gauge Block	(B)
Micrometer	(M)	Height Gauge	(H)	Go. No-Go	(G)
Opto-Comparator	(O)	Dial Indicator	(D)	Microscope	(S)
Pin Gauge	(P)	Flexible Rule	(F)	CMM	(E)

Distribution

R&D	
QC	
Purchase	
Vendor	V

Input **Low** **High**

If the Range is Greater Than 50% of the Total Tolerance the Cell will be RED

Item	Dimension Location	Actual Location	Gage Code	Cav. No	Spec.	+ Tol	- Tol	+ Tol	- Tol		Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Average	Status	Range	RD check sample	Disposition	Comments
1			Caliper		399.4	0.3	0.3	399.7	399.1		399.330	399.350	399.300	399.320	399.350	399.33	OK	0.050	399.320		
2			Caliper		13.3	0.2	0.2	13.5	13.1		13.250	13.260	13.230	13.250	13.220	13.24	OK	0.040	13.250		
3			Caliper		0.4	0.05	0.05	0.45	0.35		0.390	0.400	0.410	0.410	0.410	0.40	OK	0.020	0.410		
4																					
5																					
6																					
7																					
8																					
9																					
10																					
11																					
12																					
13																					
14																					
15																					
16																					
17																					
18																					
19																					
20																					
21																					
22																					
23			Caliper															0.000	0.000		

Initiator: Guan Chengkai **Reviewed by :** Cao Xiaofeng **Approved by:** DIVA / Alicia Liao / 2024.06.21

AP_GP BOM Report

Qisda P/N	4K.64602.002
Qisda Item description	#MYLAR IO 399.4*13.3MM NO DB
Maker	柯裕
Maker P/N	4K.64602.002
Create date	2024/06/21

Component type	Description	Supplier	Subpart type	Subpart Description	Subpart Supplier	Sample Description	Remark	Report No.	Test Date	Cd	Pb	Hg	Cr6+	PBBs/PBDEs	Br	Cl	Br+Cl	DIBP	DEHP	BBP	DBP	F	I	Exemptions
Plastic film/Mylar	3M9448A 3M9448AB	无色透明双面胶片	Adhesive	3M9448A 3M9448AB	3M	无色透明双面胶片		CANEC2300908903;CANEC2300908901;CANEC2300908902	2023/01/28;2023/01/28;2023/01/28	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	
Plastic film/Mylar	LEXAN 8BXX(X MAY COVER 0~99)	SABIC	Plastic film/Mylar	LEXAN 8BXX(X MAY COVER 0~99)	SABIC	TRANSLUCENT SHEET	8B35	CE/2017/83786	2017/09/01	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D			
Plastic film/Mylar	大和全系列油墨	DAHEINK	Ink/Paint	大和全系列油墨	DAHEINK	Black ink	大和油墨	CANME17259889;CANEC1723770501	2018/01/08;2017/12/04	N.D	N.D	N.D	N.D	N.D	N.D	60	60	N.D	N.D	N.D	N.D			
Summary data										N.D	N.D	N.D	N.D	N.D	N.D	60	60	N.D	N.D	N.D	N.D	N.D	N.D	

苏州柯裕电子材料有限公司

FAI 检验报告

客户名称	钰纬科技	品名	/O LABEL (RUG55,65,PHILIPS,BL/
客户料号	3MD664L2020	日期	2026/10/19
材质	PC8B35 T=0.25mm+3M9448A		

序列	检验项目	规格标准		检测结果					检测方法	判定
				1	2	3	4	5		
1	材质	8B35+3M9448		OK	OK	OK	OK	OK	SGS	OK
2	颜色	黑色		OK	OK	OK	OK	OK	目测	OK
3	尺寸(MM)	399.4	0.3	0.300	399.430	399.450	399.500	399.320	卡尺	OK
		13.3	0.2	0.200	13.270	13.250	13.200	13.220	卡尺	OK
		0.4	0.05	0.05	0.4	0.4	0.4	0.4	卡尺	OK
检测结果：			☑合格			☐不合格				
备注：										

检验员：李海燕

表单编号：KY-QR-Q-04-1.0

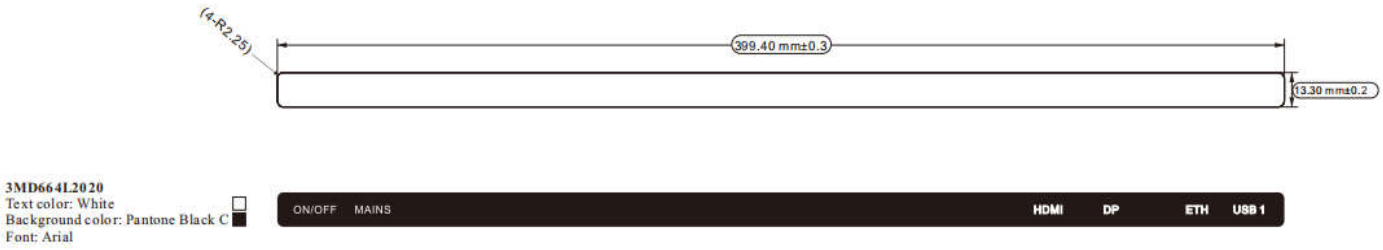
苏州柯裕电子材料有限公司

Suzhou Keyu Electronic Materials Co., Ltd.

检验标准书(SIP)

文件編號	SIP-QC-1164	产品名称	GASKET			材　質	依图纸
		产品料号	3MD664L2020			版　本	B
制定日期	2021/11/25	修訂日期	2026/10/19	图面版本	A	page	1

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



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

1.材料上线前确认其材质，厚度参照SOP。

2.外观不可有未冲断、破损、胶偏、毛边等异常。

3.产品状态下泡棉屑、裁切屑严格按照要求管控

项目三：实配

确认产品包装是否完好，包装数量是否正确，产品标签是否和实物一致。

NO	品质履历	责任单位
1		
2		
3		
4		
5		

核准	曹小峰	審核	曹小峰	制定	薛晓兰

柯裕电子材料有限公司(铭板）
通用检验基准（SIP）

制定部门：	品质部	制定日期：	2018/7/24	版本：	A1

1.目的:补充提供品质保证部以及公司部门的一个基本标准,方便公司各部门的操作.

2.范围:公司所有产品

3.抽样标准：MIL-STD-105E　LEVEL-Ⅱ 正常.单次AQL（CR:0 MA：0.4 MI：0.65）

4.检测条件:灯光800-1000LUX,45度角+15/-15.人眼距待测物距离依据实际产品的大小,尺寸来定,

5.检验人员:具备一定印刷物检验知识,与样品比对后,可以针不同的确良问题作出合理的判断。

6：检验项目：

项目	基准	检验工具	缺陷等级
材质	(1)要求厂家在新品种首次入库时，提供材质报告 (2)量产物与样品一致 (3)外表面本身材质的杂质颗粒〈0.5mm²且用肉眼不能明显识别,杂质颗粒不能将本身印刷的字样覆盖 (4)厚度与图纸中注明的厚度要求一致	目视、卡尺	MA
印刷内容	与样品或图纸比对，确认内容一致	目视、菲林尺	MA
颜色	把产品与标准色一起叠放 与眼睛呈45度角检验，有客户签回的上下限度样的颜色色差需在两者之间，没有的需与样品或色卡一致	目视	MI
油膜附着力	做百格测试、胶带边缘没有粘颜色为合格	目视、 百格刀/刀片、 3M胶带	MA
表面确认	（1）溢墨：视窗溢墨不允许 （2）透光：D≤0.1mm 忽略不计 D＞0.1mm 允许有一 （3）印刷偏移：油墨印刷偏移不可在 （4）字体：字体清晰、不可有断线、溢墨 （5）点状缺陷：D≤0.15mm 相互距离≥20mm允许两个 D≥0.2mm不允许 （6）线状缺陷（划伤不可在）： - 0.03mm＜W≤0.1mm L小于等于3mm - 相互距离≥20mm 允许两条 - W≥0.1mm 不允许 （7）表面平整度： 产品表面不得有脏污、水印、尖点、缺口等明显不良	目视	MA
背胶确认	（1）需要治具贴合背胶的，注意贴合位置准确， 视窗及边缘不可溢胶 （2）带背胶切割/冲压的产品， 边缘残胶 D≥0.2不可有	目视	MI
尺寸	所有尺寸必须在SOP图纸标注公差范围内	卡尺、菲林尺	MA

制定:赵云霞　　审核：靳帅旗　　核准：曾涛

PRODUCT DATASHEET
Lexan* 8B35 Film

DESCRIPTION

Lexan 8B35 is a one side velvet, one side matte transparent polycarbonate film. It offers high temperature resistance, excellent dimensional stability, as well as good printability without pre- treatment making it very suitable for multi-layer printing for applications such as overlays, floor graphics, high-performance labels and in-mould decoration. It can be screen printed using traditional solvent based or water based inks, as well as UV or infrared drying inks and offers ease of processing for thermoforming, embossing, die-cutting, hydro-forming and bending. The velvet texture offers mar resistance, and can be used over light-emitting devices (LEDs).

TYPICAL PROPERTY VALUES◆

Property	ASTM Test Method	Units (USCS)	Value	ISO Test Method	Units (SI)	Value
Mechanical						
Tensile Strength @ Yield	ASTM D882	psi	8500	ISO 527	MPa	62
Ultimate	ASTM D882	psi	9000	ISO 527	MPa	65
Tensile Modulus	ASTM D882	psi	300000	ISO 527	MPa	2100
Tensile Elongation at Break	ASTM D882	%	100-156	ISO 527	%	100
Gardner Impact Strength at 0.03" (0.75 mm)	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" (0.25 mm)	ASTM D2176-69	double folds	60			
0.020" (0.50 mm)	ASTM D2176-69	double folds	20			
Thermal						
Coefficient of Thermal Conductivity	ASTM D5470	Btu/hr/ft2/°F/in	1.35		W/m°K	0.2
Coefficient of Thermal Expansion	ASTM E831	($x10^{-5}$/°F)	3.2	ISO 11359	($x10^{-5}$/°C)	7
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	150
Heat Deflection Temp. by TMA at 1.8 Mpa		°F	290	ISO 75 Modified	°C	135
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)	ASTM D5946-01	µ	See chart			
Surface Energy(1st surface/ 2nd surface)	Dyne Pens	Dyne	37/31			
Surface Tension(1^{st} surface/ 2^{nd} surface)	ASTM D3363	-	>44/38-40			
Taber Abrasion	ASTM D1044	delta Haze	<1			
Optical						
Refractive Index @77°F (25°C)	ASTM D542A	-	1.6			
Light Transmission	ASTM D1003	%	80			
Yellowness Index	ASTM D1925	%	2.2			
Haze	ASTM D1003	%	102			
Gloss over Flat Black min/max @ 60°	ASTM D523-60	-	See chart	ISO 2813	-	See chart
UV cutout	UV/Visual Spectroscopy	%	0.3			

◆ These are typical properties and are not intended for specification purposes. If minimum certifiable properties are required, Please contact your local SABIC Innovative Plastics representative or the SABIC Innovative Plastics Quality Services Department. Reported Values are Based on 0.250 mm (0.010") Thickness unless otherwise noted.

* Trademark of SABIC Innovative Plastics IP BV

PRODUCT DATASHEET
Lexan* 8B35 Film

MANUFACTURING SPECIFICATIONS

Nominal Gauge Ranges	Min/Max Limit of Nominal
0.003" (0.075 mm)	± 10%
0.005 - 0.007" (0.125 - 0.175mm)	± 8%
0.010-0.015" (0.250-0.375 mm)	± 5%
0.020" (0.500 mm)	± 3

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Lexan* Polycarbonate Film

* Trademark of SABIC Innovative Plastics IP BV

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Double Coated Tissue Tape 9448A/9448AB

Technical Data **Jan 2009**

Product description **9448A/9448AB:** 3M™ Double Coated Tissue Tape for dimensional stability and improved handling with ease of die cutting and laminating. The high adhesion adhesive provides excellent adhesion to a variety of surfaces.

Construction	**9448A/9448AB**
Faceside [1] Adhesive Type/Thickness:	Acrylate /0.003" (0.076mm)
Backside [2] Adhesive Type/Thickness:	Acrylate/0.003" (0.076mm)
Liner Color, Type, Print	White, 120gsm PCK , 3M logo
Liner Caliper:	0.0056" (0.14mm)
Carrier Type:	Tissue
Tape color:	Translucent/Black

Note 1: Faceside adhesive is on the interior of the roll, exposed when unwound.
Note 2: Backside adhesive is on the exterior of the roll, exposed when liner is removed.

3M™ Double Coated Tissue Tape 9448A/9448AB

Typical Physical Properties and Performance Characteristics

Note : The following technical information and data should be considered representative or typical only and should not be used for specification purposes.

180 degree peel adhesion ASTM D3330, 2mil PET backing

Adhesion to Stainless steel	N/100mm
- 30 minute RT	135
- 72 hours RT	140
Adhesion to PC	
- 30 minute RT	135
- 72 hours RT	140
Adhesion to PP	
- 30 minute RT	100
- 72 hours RT	105

Shear Strength – ASTM D3654
(1 inch^2 sample size)

1000grams at 72° F (22℃)	5000 minutes
Relative solvent resistance	Medium
UV Resistance	Medium
Relative High Temperature Operating Ranges:	
Long Term (days, weeks)	70℃
Short Term (minutes, hours)	150℃
Shelf Life of Tape in Roll Form	24 months from date of manufacture when stored in original cartons at 70° F (21℃) and 50% relative humidity.

3M™ Double Coated Tissue Tape 9448A/9448AB

Application Techniques

Bond strength is dependent upon the amount of adhesive-to-surface contact developed. Firm application pressure helps develop better adhesive contact and improves bond strength.

To obtain optimum adhesion, the bonding surfaces must be clean, dry and well unified. Some typical surface cleaning solvents are isopropyl alcohol or heptane.

Note: Carefully read and follow the manufacturer's precautions and directions for use when working with solvents.

Ideal tape application temperature range is 70°F to 100°F (21°C to38°C). Initial tape application to surfaces at temperatures below 50°F (10°C) is not recommended because the adhesive becomes too firm to adhere readily. However, once properly applied, low temperature holding is generally satisfactory.

General Information

All tapes have a tissue carrier, which can add dimensional stability to foams and other substrates. The carrier also provides easier handling during slitting and die-cutting.

Features

3M™ Adhesive is a medium-firm acrylic adhesive system featuring both high initial adhesion and good high temperature holding power.

Application Ideas

- Nameplate bonding
- Plastic film lamination/bonding
- Foam bonding

Application Equipment

To apply adhesives in a wide web format, lamination equipment is required to ensure acceptable quality. To learn more about working with pressure-sensitive adhesives please refer to technical bulletin, Lamination Techniques for Converters of Laminating Adhesives.

For additional dispenser information, contact your local 3M sales representative.

3M™ Double Coated Tissue Tape 9448A/9448AB

Certification/ Recognition

MSDS: 3M has not prepared a MSDS for the products which are not subject to the MSDS requirements of the Occupational Safety and Health Administration's Hazard Communication Standard, 29 C.F.R.

TSCA: The product are defined as articles under the Toxic Substances Control Act and therefore, are exempt from inventory listing requirements.

Important Notice

3M MAKES NO WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. User is responsible for determining whether the 3M product is fit for a particular purpose and suitable for user's method of application. Please remember that many factors can affect the use and performance of a 3M product in a particular application. The materials to be bonded with the product, the surface preparation of those materials, the product selected for use, the conditions in which the product is used, and the time and environmental conditions in which the product is expected to perform are among the many factors that can affect the use and performance of a 3M product. Given the variety of factors that can affect the use and performance of a 3M product, some of which are uniquely within the user's knowledge and control, it is essential that the user evaluate the 3M product to determine whether it is fit for a particular purpose and suitable for the user's method of application.

Limitation of Remedies and Liability

If the 3M product is proved to be defective, The exclusive remedy, at 3M'S option, shall be to refund the purchase price of or to repair or rplace the defective 3M product. 3M shall not otherwise be liable for loss or damages, whether direct, indirect, special, incidental, or consequential, regardless of the legal theory asserted, including, but not limited to, contract, negligence, warranty, or strict liability.

ISO 9002

This Engineered Adhesives Division product was manufactured under a 3M quality system registered to ISO 9002 standards.

3M

3M Maxdo, Xingyi Road 8
Shanghai, PRC.

● 3M 2009

苏州柯裕电子材料有限公司

包装计划书

客户	钰纬科技	料号	3MD664L2020	包装方式	PE袋/纸箱	版本	A
		品名描述		Q#I/O LABEL (RUG55,65,PHILIPS,BLACK)			

一.产品包装:

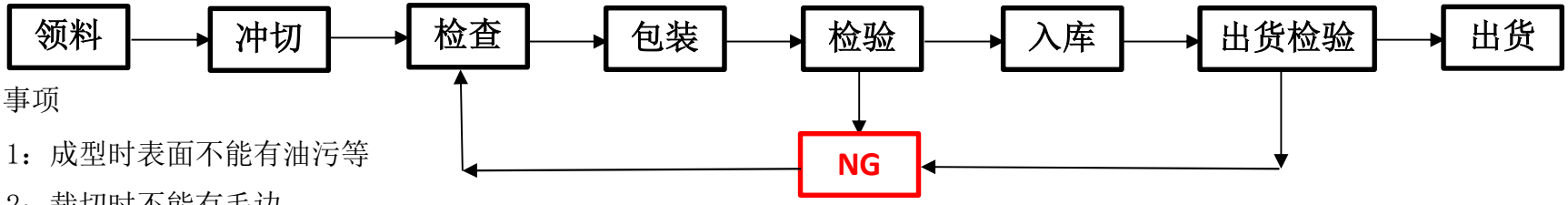
1.按产品大小进行整数包装;

2.如有单张产品个数不足，则以整包个数为准;

二.产品外箱标签要注明品名,料号,数量,日期;

三.箱内产品不可堆叠过高;

作业程序&注意事项



注意事项

1：成型时表面不能有油污等

2：裁切时不能有毛边

核准	审核	制定	制定日期	修订日期
曹小峰	曹小峰	关成凯	2026年10月19日	2026年10月19日