

設計驗證工程師
2026 -10- 22
發行

承　認　書

APPROVAL SHEET

公 司 名 稱：鈺緯科技開發股份有限公司

CUSTOMER NAME

料　　號：3MD693TH050 (M3539)

PART NO.

設計驗證工程課 2026 -10- 22 發行

品　　名：PANEL MYLAR TIANMA

NATERIAL （QDII,21.5”）

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維 霆 實 業 有 限 公 司

WEI TING ELECTRONICS CO., LTD.

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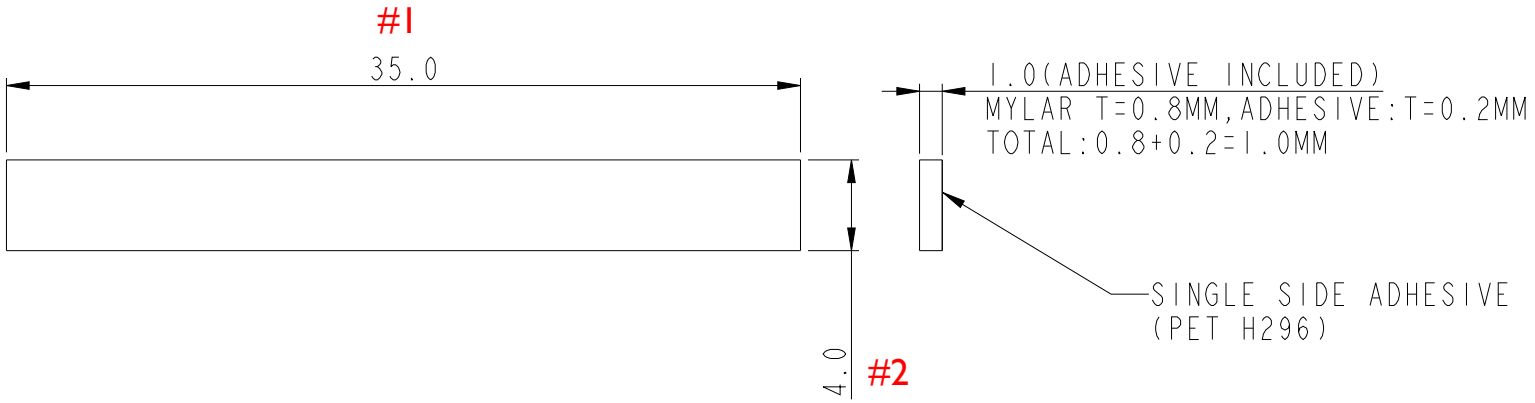
REV	DATE	DESCRIPTION	DRAFT	APPROVED
0	Aug-28-26	INITIAL RELEASE	Owen	

設計驗證工程課
2026-10-22
發行



NOTE:
1. Material:
MYLAR, TRANSPARENT PC 8010 T=0.8MM+PET H296 T=0.2MM
2. RoHS Compliant.
3. DIVA QC Inspection Document NO.:
QWI-020 (Plastic)

UNLESS OTHERWISE SPECIFIED
ALL DIMENSIONS ARE IN MM.
TOLERANCES:

.X = ± 0.5
.XX = ± 0.30
.XXX = ± 0.150
ANGLE = ± 1.0°

INTERPRET DIM AND TOL
PER ASME Y14.5-2009

THIRD ANGLE PROJECTION

MATERIAL: MYLAR	FINISH:	DIVA Laboratories. Ltd.				
DRAWN BY: Owen Aug-28-26		PART NAME: PANEL_MYLAR_TIANMA				
CHECKED BY:		PART NUMBER: 3MD693TH050	MFG. PART NUMBER			
APPROVED BY:		MODEL NAME: QD11_21.5"	SIZE: A4	SCALE: 3/1	SHEET: 1 OF 1	REV: 0
Creo FILE NAME: PANEL_MYLAR_TIANMA	APPROVED NO.: (M3539)	THIS DOCUMENT IS SUPPLIED IN CONFIDENCE. NO REPRODUCTION OF THIS DOCUMENT IN PART OR IN WHOLE OR THEREON OF THE ITEMS SHOWN MAY BE MADE WITHOUT THE COPYRIGHT OWNERS WRITTEN PERMISSION.				

ASME STANDARD, MM

檢　驗　報　告

日期:115.10.07

料　號	3MD576TH050	品　名	OANEL MYLAR TIANMA（QDII,21.5”）

圖面位址	量測工具	圖面尺寸	公差	樣品1	樣品2	樣品3	判定
C2	游標卡尺	35.00mm	±0.50	35.04	34.94	35.02	■OK□NG
B3	游標卡尺	4.00mm	±0.50	3.96	4.02	3.96	■OK□NG
C4	游標卡尺	1.00mm	±0.20	1.01	1.00	1.01	■OK□NG

指　定　材　質	使　用　材　質
PC#8010 0.8t H296	PC#8010 0.8t 296

覆核:　陳建宇　　檢驗:

PRODUCT DATASHEET
Lexan* 8010 Film

DESCRIPTION

Lexan* 8010 polycarbonate film offers excellent clarity in all thicknesses, high heat resistance, and superior dimensional stability for graphic art applications. Derived from one of the world's toughest polymers, Lexan 8010 provides a high gloss finish. Additional enhancements allow improved gauge control (see underneath for details).

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	%	100-150	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" (0.254 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/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
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 B46-1	µ	NA			
Surface Energy	ASTM D5946-01	-	34			
Surface Tension	Dyne Pens	Dyne	38-40			
Pencil Hardness	ASTM D3363	-	b-hb			
Bayer Abrasion	Colts Lab Test	Ratio	0.38			
Steel Wool Abrasion	Colts Lab Test	Haze Gain	15.44			
Steel Wool Abrasion	Colts Lab Test	Ratio	0.08			
Optical						
Refractive Index @77°F (25°C)	ASTM D542A	-	1.6			
Light Transmission	ASTM D1003	%	91			
Yellowness Index	ASTM D1925	%	0.7			
Haze	ASTM D1003	%	0.4			
Gloss over Flat Black min/max @ 60°	ASTM D523-60	-	170	ISO 2813	-	170
Electrical						
Dielectric Strength in oil, short time @ 72°F (23°C), 10 mils (0.25 mm)	ASTM D149-97a Method A	kv/mil	1.81	IEC 60243	kv/mm	71
@ 60 Hz	ASTM D150	-	2.32	IEC 60250	-	2.32
@1,000,000	ASTM D150	-	2.3	IEC 60250	-	2.3
Dissipation Factor						
@ 60 Hz	ASTM D150	-	0.001	IEC 60250	-	0.001
@ 1,000,000 Hz	ASTM D150	-	0.01	IEC 60250	-	0.01
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	120			

PRODUCT DATASHEET
Lexan* 8010 Film

◆ 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.

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MANUFACTURING SPECIFICATIONS

Nominal Gauge Ranges	Min/Max Limit of Normal
0.004"-0.007"(0.100-0.178mm)	± 10%
0.010-0.015" (0.254-0.381mm)	± 5%
0.020-0.030" (0.508-0.762mm)	± 3%

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Lexan* Polycarbonate Film

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PRODUCT INFORMATION

CACTUS NO. H296

Double-coated adhesive tape

Features/characteristics

1. Adhesive : Premium acrylic (solvent base) adhesive coated on both sides.
2. Carrier : 1/2 mil clear PET film.
3. Liner : 130 g/m^2 PE lamination bleached Kraft paper.
4. Excellent plasticizer migration resistance.
5. Offering a secure bonding result under high temperature condition.
6. Good resistance to solvent, chemicals, UV & heat.
7. Exceptional bonding performance to low surface energy substrates.

Technical data

1.	Thickness	:	0.20 ± 0.01 mm
2.	Tack	: J. Dow No.	16
3.	Peel Adhesion	: PSTC-3	1.8 kg / 25 mm
4.	Shear Strength	: PSTC-7	Over 48 hrs with 1 kg loading on 25 mm x 25 mm
5.	Heat Resistance	:	Over 24 hrs with 0.5 kg loading on 25 mm x 25 mm at 80℃
6.	Service Temperature	:	- 20 ℃ ~ 180 ℃

Applications

1. Bonding for ABS and PP plastic plates in Industrial grade applications.
2. Laminating of rubber & EPDM materials for seal, gasket purpose.
3. Fastening to the decorative trim, such as PVC profile for Furniture Industry.

Remark

All information and recommendations are given by us in good faith, on the basis of practical experience, but without warranty. It's essential that the user should evaluate the product for a period of time to determine whether it is fit for a particular purpose and suitable for the user's method of application.