

# Specification for approval

緯穎料號

Wiwynn Part No:40.64W13.001

Description:MYLAR PLUS HU230

廠商型號

Vendor Model No:DZ-10-0.175T

Description:MYLAR背膠Φ10\*0.175T

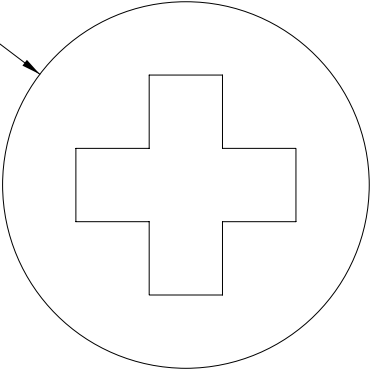
Issued Date: 2012.12.19

Approved Date: 2012.12.19

Approved by (Wiwynn )	Approved by (vendor)	Prepared by (vendor)
林晃業		韓慶福
2012.12.19		2012.12.19


1		2		3		4									
ITEM		PART NO.		PART NAME		RAW MTL. COLOR		ARTWORK		MATERIAL		FINISH PROCESS		FINISH COLOR	
		40.64W13.001		MYLAR PLUS HU230						PC 1860					

Ø 10.00

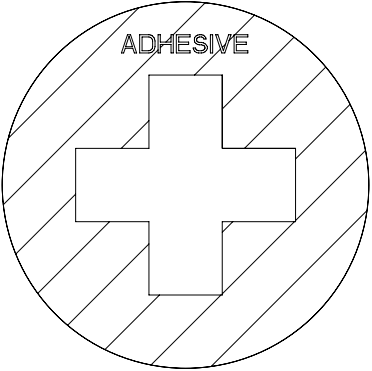


SCALE 5.000



0.175±0.05(含膠)



ADHESIVE



0.125mm thickness with 3M 467MP adhesive layer backside

RANGE \ TOL ±				✓					MODEL	KNOX	NAME MYLAR PLUS HU230													
	M1	M2	S1	S2	P1	P2	C	URS																
	0~6	0.05	0.10	0.15	0.20	0.05	0.10	0.50																
	6~30	0.10	0.20	0.15	0.25	0.10	0.15	1.00																
	30~120	0.15	0.25	0.20	0.30	0.20	0.40	2.00					DRN	Arge Lin	11/2 2012	MATERIAL	PC-835	N/A	REV.	DESCRIPTION	SIGN	DATE		
	120~300	0.15	0.30	0.25	0.45	0.40	0.80	3.00					DSN	Arge Lin	11/2 2012	FINISH					DIM IN	mm	DO NOT SCALE	DWG
	300~600	0.20	0.50	0.40	0.60	0.60	1.20	3.00					CKD	CH Hsieh	11/2 2012	Wiwynn Corporation		DRAWING NO.	CD 40.64W13.0X1	SHEET	1	OF	1	
600~1200	0.30	0.80	0.70	1.10	0.80	1.50	4.00		APPD	CH Hsieh	11/2 2012													
ANG. TOL ±	1°																							

1		2		3		4	
---	--	---	--	---	--	---	--

# FAI Data Sheet

[illegible]

# LonghuaPC-835,835F,832,832F,836FILM

## 产品描述 Description:

LonghuaPC-835,835F,832,832F,836印刷系列薄膜、片材可提供各种纹理表面，这些纹理都具有耐磨性能，可用于LED设备。光泽度低的特点使得LonghuaPC印刷系列产品还能改善办公环境。特别研发了LonghuaPC-835F&832F系列产品，适用于对减少针孔现象要求严苛的背光用途。

LonghuaPC-835,835F,832,832F,836 graphics films/sheets are available in diverse combinations of textures for customized design flexibility. These textures also offer mar resistance, and can be used over light-emitting devices (LEDs). Low gloss levels are also available to reduce glare in office environments. LonghuaPC-835F&832F are specifically designed to help eliminate pinholes in demanding backlit applications.

UL File Number: E254551

商品代码 Grade	颜色 Color	表面纹理 Texture	厚度(mm) Thickness	宽度(mm) Width	行业型号对照 VS Other Brands
LonghuaPC-835	本色 Natural	哑光/中砂 Matte/ velvet	0.05 ~ 1.00 (0.002" ~ 0.040")	930 or 1230 (3' or 4') 可以分切 converting available	8B35 / PCVM
LonghuaPC-832		哑光/细砂 Matte/fine velvet			DE 7-2 DE 6-2
LonghuaPC-836		哑光/粗砂 Matte/suede			8B36 / PCSM
LonghuaPC-835F		半哑光/中砂 Fine matte/velvet	0.175 ~ 1.50 (0.007" ~ 0.060")		8B35F
LonghuaPC-832F		半哑光/细砂 Fine matte/fine velvet			—

## 包装明细表 Package Details

### 1. 卷材包装明细表 Roll Package Details

厚度(mm) Thickness	卷重(kg) Weight Per Roll	磅重 ( LB ) Pound	每磅面积(mm) Each Pound Area 宽(W) × 长(L)	每卷卷长(m) Winding Length	每磅面积(M <sup>2</sup> /LB) Each Pound Area
0.050 (0.002")	80	176	930 × 8140	1433	7.57
0.075 (0.003")	80	176	930 × 5432	956	5.05
0.125 (0.005")	89.3	197	930 × 3172	640	3.04
	118	260	1230 × 2472		
0.175 (0.007")	89.3	197	930 × 2320	457	2.16
	118	260	1230 × 1756		
0.25 (0.010")	89.3	197	930 × 1634	322	1.52
	118	260	1230 × 1236		
0.38 (0.015")	89.3	197	930 × 1066	210	0.99
	118	260	1230 × 813		
0.5 (0.020")	89.3	197	930 × 812	160	0.76
	118	260	1230 × 618		
0.76 (0.030")	89.3	197	930 × 527	105	0.49
	118	260	1230 × 398		
1.0 (0.040")	89.3	197	930 × 409	80	0.38
	118	260	1230 × 309		



## 2. 片材包装明细表 Sheets Package Details

规格 Size	每片重量 Weight per Pcs		包装 Pcs/pack	张数/托盘 Pcs/Pallet
	kg	LB		
0.500mm × 930mm × 1830mm ( 0.020" × 3' × 6' )	1.02	2.25	20	500
0.760mm × 930mm × 1830mm ( 0.030" × 3' × 6' )	1.55	3.42	15	375
1.000mm × 930mm × 1830mm ( 0.040" × 3' × 6' )	2.04	4.50	10	300
1.500mm × 930mm × 1830mm ( 0.060" × 3' × 6' )	3.06	6.75	10	200

## 物性表 Typical Property Values

特性 PROPERTY	测试方法 Test Method	单位 Units	测试值 Value
物理性 PHYSICAL			
比重 Specific Gravity	ASTM D792	g/cm <sup>3</sup>	1.2
透光率 Light Transmission	ASTM D1003	%	>88
平均吸水率 Water Absorption Equilibrium, 24 HRS	ASTM D570	%	0.35
机械性 MECHANICAL			
拉伸强度 Tensile Strength	ASTM D882	psi	8,500
	ISO R1184-1987	MPa	>55
极限延伸率 Elongation Ultimate	ASTM D882	%	>90
冲击强度 Impact strength @ 10mils	JIS-K6745	In-lbs	120
撕裂强度 Tear Strength Propagation	ASTM D1922	g/mil	>30
耐温性 THERMAL			
维卡软化点 Vicat Softening Temperature	ASTM D1525	℃	135
热收缩率 Strain Relief @135℃	ASTM D1204	%	<0.2
电气性 ELECTRICAL			
介电强度 Dielectric Strength (@ 10mils)	ASTM D149	V/mil	1,700
体积绝缘 Volume Resistivity@25℃,50%RH	ASTM D257	Ohm-cm	10 <sup>16</sup>
表面绝缘 Surface Resistivity@25℃,50%RH	ASTM D257	Ω/□	10 <sup>15</sup>
阻燃性 FLAMMABILITY			
UL 防火等级 UL Flammability			
@ ≥0.5mm(符合REACH的无卤产品)	UL BULLETIN 94	UL94	V-2
@ < 0.5mm(符合REACH的无卤产品)			HB
0.25mm≤ @ < 0.5mm (符合REACH的含溴产品)			V-2
@ < 0.25mm(符合REACH的含溴产品)			VTM-2
特性 PROPERTY	单位 UNITS	极限值 LIMITS	
厚度公差 Gauge Variation	%	< 0.250mm ± 10% ≥0.250mm ± 5%	

注：以上各项数据系通过标准测试方法而获得的代表性数据，但是其数值不能在不稳定用途中作为性能的保证。  
 我在此给出的以上信息均出于善意，不作任何明示或暗示担保：1)终端客户特定生产环境下均可获得上述相同的测试结果；2)对于因卖方产品、服务或建议引起的任何设计的有效性或安全性问题，除非在卖方的标准销售条款中另有规定，否则，卖方不承担因使用本产品或服务引发的任何损失。终端客户应针对其特殊用途对产品、服务和建议的适应性进行考量，并进行终端测试和分析。

Note: The above figures are typical values obtained under standard methods and should not be construed as guaranteed data under unsteady application conditions.

Although any information or recommendation contained herein is given in good faith, seller makes no warranty or guarantee, express or implied: 1) that the results described herein will be obtained under end-use conditions, or 2) as to the effectiveness or safety of any design incorporating seller's products, services or recommendations. Except as provided in seller's standard conditions of sale, seller shall not be responsible for any loss resulting from any use of its products or services described herein. Each user is responsible for making its own determination as to the suitability of seller's products or services or recommendations for the user's particular use through appropriate end-use testing and analysis.

TEL: 0086-816-2566443 2566427 2566465 2566306 FAX: 0086-816-2566223

# SCOTCH 467MP, 468MP 薄膜雙面膠

## 產品構造：

離型紙：58 磅多層塗佈牛皮紙（0.102mm）。

膠 系：#200MP 高效能壓克力膠。

（467MP 膠厚 0.05mm，468MP 膠厚 0.127mm）

## 應用範圍：

銘版，鑲飾品，裝飾片及彩色薄片貼合用。

## 產品特點：

- ◆ 膠面塗佈極為均勻，特別適用於塑膠薄片之貼合。
- ◆ 有極佳之凝聚力，減少一般無基材雙面膠邊緣溢膠之缺點。
- ◆ 耐溫性佳，為金屬銘版之最佳貼合用雙面膠。
- ◆ 有佳之黏性及良好的耐候特性。
- ◆ #467MP 膠厚 0.050mm，適用於較光滑之表面。
- ◆ #468MP 膠厚 0.127mm，適用於咬花或較粗糙之表面。

## 產品性質及效能：

1. 黏著力：200MP 高效能壓克力膠，其黏著力會隨時間及溫度之增加而愈來愈強。
2. 抗溼性：於 38℃ 及 100%相對溼度環境下 7 天，依然有極高之黏性。
3. 抗紫外線特性：在美國 FLORIDA 州強烈陽光下測試一年無不良影響。
4. 耐水性：將此雙面膠浸於 65℃ 之水中 100 小時，其黏性反而增加。

5. 溫度循環測試：

在下列之溫度下循環五次，測得其黏結性將會增加

30 分鐘 121°C

15 分鐘 22°C

31 分鐘 -29°C

15 分鐘 22°C

6. 化學阻抗性：

於多數化學溶劑的測試中，均不影響其黏性，如石油、JP-4 油精、酸性溶劑、油脂、三氯乙烯、煤油、烴化及脂肪質之溶劑等。

7. 耐熱性：

200MP 膠系短期可承受 204°C 數小時，長期下並能承受 149°C 之高溫。

8. 產品壽命：

於 22°C 及 50%相對溼度之庫存條件下，其膠性可確保一年之壽命。

膠系特性：

測試方法

467MP

468MP

**\*ASTM D903**

180 度剝離力—305mm/分鐘（20 分鐘）  
0.025mm 厚 PET 貼合於不銹鋼

59  
牛頓/100 毫米

96  
牛頓/100 毫米

**\*3M 測試**

90 度剝離力—305mm/分鐘（72 小時/長期）  
0.194mm 鋁貼合於不同表面金屬（不銹鋼）

119/232  
牛頓/100 毫米

234/368  
牛頓/100 毫米

高能量表面  
（PC, PU, PET, PVC）

107/112  
牛頓/100 毫米

154/152  
牛頓/100 毫米

低能量表面  
（PP, PE, PS）

使用 9471，9491 使用 9472，9492

# UL Online Certifications Directory

[OCD Home](#) [Quick Guide](#) [Contact Us](#) [UL.com](#)

QOQW2.MH17478

## Polymeric Adhesive Systems, Electrical Equipment - Component

[Page Bottom](#)

---

## Polymeric Adhesive Systems, Electrical Equipment - Component

[See General Information for Polymeric Adhesive Systems, Electrical Equipment - Component](#)

3M COMPANY

INDUSTRIAL ADHESIVES & TAPES DIV

3M CENTER

BLDG 230-2S-29

ST PAUL, MN 55144 USA

MH17478

Product Dsg	Surface	Min Temp Rating C	Max Temp Rating C
3M VHB Double sided adhesive foam tapes, suitable for indoor or outdoor applications.			
4433, 4434	Stainless Steel, Nickel, Copper, Aluminum, Brass, Glass	-35	90
4615	Aluminum, Galvanized steel, Enameled steel, Stainless steel, Glass/Epoxy	-35	110
	Polycarbonate, PBT	-35	90
	ABS, PVC	-35	75
4646, 4611, 4655	Stainless Steel, Aluminum, Galvanized steel, Glass,	-35	110



	Glass/Epoxy, Phenolic		
	Nylon, Polycarbonate	-35	90
	ABS, Rigid PVC	-35	75
4922	ABS, Polycarbonate, Polyamide	-35	90
	Phenolic, Aluminum, Galvanized steel, Alkyd enamel	-35	110
	Unplasticized Polyvinyl Chloride	-35	75
4945	ABS, Polycarbonate, Polyamide, Stainless Steel, Acrylic/Polyurethane paint, Polyester paint	-35	90
	Phenolic, Aluminum, Galvanized steel, Alkyd enamel	-35	110
	Unplasticized Polyvinyl Chloride	-35	75
	Aluminum	-35	90
	Phenolic, Enameled steel	-35	110
5925, 5952, 5962	Polycarbonate, Aluminum, Acrylic/Polyurethane paint, Galvanized steel, Polyester paint	-35	90
	Rigid PVC	-35	75
5952	Acrylic, Cellulose Acetate Butyrate	-35	90
<b>3M VHB Adhesive transfer tapes, suitable for indoor or outdoor applications.</b>			
9460PC, F-9460PC, 9469PC, F-9469PC, 9473PC, F-9473PC	ABS, Polycarbonate, Galvanized steel	-35	90
	Aluminum, Phenolic, Enameled steel, Stainless steel, Ceramic, Glass/Epoxy	-35	110
	Rigid Polyvinyl Chloride	-35	75
9469PC, F-9469PC	Nickel plated iron	-35	110
<b>3M VHB Double sided adhesive foam tapes, suitable for indoor or outdoor applications.</b>			
4914, 4920, 4930, 4950	Aluminum, Galvanized steel, Enameled steel, Stainless steel, Ceramic, Glass/Epoxy	-35	110
	ABS, Polycarbonate, Rigid PVC	-35	75

	PBT, Acrylic	-35	90
4905, 4910	Polycarbonate, Aluminum, Acrylic/Polyurethane paint	-35	90
4919F, 4919P, 4926, 4936, 4936F, 4941, 4941F, 4946, 4947F, 4947P, 4956, 4956F, 4979, 4979F	Ceramic	-35	110
	Aluminium, Galvanized steel, Stainless steel, Enameled steel, Nickel Coated ABS, Glass (with or without Silane Coating), PVC, Glass/Epoxy, PBT, Polycarbonate, Acrylic/Polyurethane paint, Polyester paint	-35	90
	ABS	-35	75
		-35	90
4991	Polycarbonate, Aluminum, Acrylic/Polyurethane paint, Polyester paint	-35	90
<b>3M Adhesive transfer tapes, suitable for indoor or outdoor applications.</b>			
7965MP, 8153LE	Urethane Paint, Polyester Paint, Acrylic Paint	-35	60
467 MP, 467 MPF, 468 MP, 468 MPF, 9667 MP, 9668 MP, 7952 MP, 7955 MP, 7962 MP, 9172 MP, 9172 PT, 9185 MP, 9679 MP, EAD217, 7945 MP, 7953 MP, 7956 MP, 7956 MWS, 7956 WDL, 7957 MP, 7959 MP, 7961 MP, 9045 MP, 9056 MP, 9057 MP, 9057 MPW, 9059 MP, 9061 MP, 7966 MWS and 7966 WDL,	Polycarbonate, Acrylic/Urethane coated Polycarbonate	-35	85
467 MP, 467 MPF, 9667 MP, 7952 MP, 7962 MP, 9172 MP, 9172 PT, 9679 MP, EAD217, 7945 MP, 7953 MP, 7956 MP, 7956 MWS, 7956 WDL, 7957 MP, 7959 MP, 7961 MP, 9045 MP, 9056 MP, 9057 MP, 9057 MPW, 9059 MP and 9061 MP	Aluminum, Stainless Steel, Galvanized Steel, Aluminum coated Steel	-35	85

8153LE	Urethane Paint, Polyester Paint, Acrylic Paint	-35	60
9482PC, 9485PC	Polycarbonate, Aluminum, Galvanized steel, Enameled steel, Stainless steel, Ceramic, Glass/Epoxy, PBT	-35	90
	Rigid PVC, ABS	-35	75
<b>3M Thermally Conductive Adhesive Tape, suitable for indoor or outdoor applications.</b>			
9882, 9885, 9890	Glass/Epoxy	-35	110
	Aluminum , Stainless steel	-35	90
8805, 8810, 8815	Anodized Aluminum, Glass/Epoxy	-35	100
<b>3M Adhesive heat cured transfer tapes, suitable for indoor or outdoor applications.</b>			
9245	Ceramic Coated Glass, Stainless Steel	-35	105

Marking: Company name and product designation on carton, container, wrapper or package.

[Last Updated](#) on 2006-06-16

---

[Questions?](#)

[Notice of Disclaimer](#)

[Page Top](#)

[Copyright © 2006 Underwriters Laboratories Inc.®](#)

The appearance of a company's name or product in this database does not in itself assure that products so identified have been manufactured under UL's Follow-Up Service. Only those products bearing the UL Mark should be considered to be Listed and covered under UL's Follow-Up Service. Always look for the Mark on the product.

UL permits the reproduction of the material contained in the Online Certification Directory subject to the following conditions: 1. The Guide Information, Designs and/or Listings (files) must be presented in their entirety and in a non-misleading manner, without any manipulation of the data (or drawings). 2. The statement "Reprinted from the Online Certifications Directory with permission from Underwriters Laboratories Inc." must appear adjacent to the extracted material. In addition, the reprinted material must include a copyright notice in the following format: "Copyright © 2006 Underwriters Laboratories Inc.®"