

AR COATING

品名	:	AR Coating Chemical Strengthened Glass
PRODUCTION	:	平板抗反射化學強化玻璃
規格	:	2.0mm Single AR × 370.7mm × 274.7mm
SIZE	:	
宏益料號	:	K-0510-AAG-005-A
HONY CODE	:	
客戶料號	:	1220150Y001002
ITEM NO	:	
日期	:	2018.06.11
DATE	:	
包含資料	:	1. SPECIFICATION 產品規格書
DATA	:	2. CHECKING ENVIRONMENT 檢驗環境圖

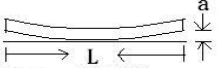
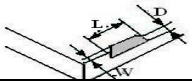
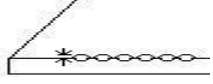

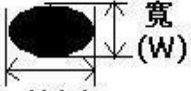
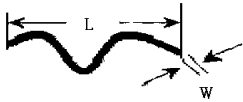
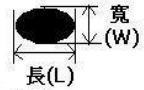
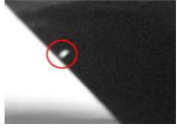
CUSTOMER

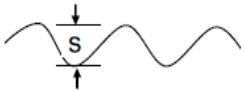
規格書請於七天內簽回,如未簽回,視同承認

It is regarded to accept SPEC if we do not receive the feedback

in seven days, and the deadline is based on the date which signed by creator.

SALES		ENGINEERING		Q.A.	
Approved	Undertaken	Approved	Undertaken	Approved	Prepared
2018.06.11	2018.06.11	2018.06.11	2018.06.11	2018.06.11	2018.06.11

SCOPE	AR Coating Chemical Strengthened Glass 平板抗反射化學強化玻璃	ITEM NO	1220150Y001002
		DATE	2018.06.11
INSPECTION CONTENT	STANDARD		REMARK
厚度 Thickness/tolerance	2.0mm (+0/-0.3mm) , AR coating on single side		Vernier caliper
尺寸 Size/tolerance	370.7mm × 274.7mm (±0.3mm)		Vernier caliper
彎曲 Warpage	≤0.5mm		
邊緣處理 Edge treatment	Ground Edge		4R=15.9mm
裂角 Chip on edges	L ≤ 0.3mm W ≤ 0.3mm D ≤ 0.3mm: unlimited		
毛邊 Chipping	Having corrugated folds continuously on the edge. D ≤ 0.1mm: unlimited		
打孔 Punch	1pc, 14.5mm φ (±0.3mm), add countersink hole on both sides.		according to customer's drawing
孔裂角 chip on hole edge	L ≤ 0.3mm W ≤ 0.3mm: unlimited		
裂痕 Fissure	Not allowed		
氣泡 Bubble	D ≤ 0.2mm: unlimited 0.2mm < D ≤ 0.5mm: accept 4pcs (interval of 80mm) D > 0.5mm: Reject		 寬 (W) 長 (L) D = (L+W)/2
雜質 Foreign object	D ≤ 0.2mm: unlimited 0.2mm < D ≤ 0.5mm: accept 4pcs (interval of 80mm) D > 0.5mm: Reject		
刮傷 Linear defect	W ≤ 0.08mm: unlimited L ≤ 15mm, 0.08mm < W ≤ 0.1mm: accept 4pcs L ≤ 20mm, 0.08mm < W ≤ 0.1mm: accept 2pcs (interval of 80mm)		
印刷 Printing	according to customer's drawing		
印刷雜質 Foreign object on printing	D ≤ 0.2mm: unlimited 0.2mm < D ≤ 0.5mm: accept 4pcs (interval of 80mm) D > 0.5mm: Reject		 寬 (W) 長 (L) D = (L+W)/2 Reflection inspection
印刷針孔 Pin hole on printing	D ≤ 0.2mm: unlimited 0.2mm < D ≤ 0.5mm: accept 4pcs (interval of 80mm) D > 0.5mm: Reject (Refill ink is acceptable)		

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INSPECTION CONTENT	STANDARD		REMARK
印刷鋸齒 Saw edge on printing	$S \leq 0.2\text{mm}$: acceptable		
印刷附著測試 Adhesion Test for printing	To cut 100 grids of 1mm×1mm by cross-cut tester on printing area, then peel ink by 3M#600 or #610 adhesive tape. $\geq 4B$		Ref.1
印刷酒精測試 Alcohol wipe test for Printing	Wipe printing area for 100 times with the pure alcohol of 99.5%. Qualified in case of no any ink off, Un-qualified in case of ink off.		
穿透率 Transmission rate	Visible wavelength 400nm~700nm, $> 92\%$		(CNS12381)
反射率 Reflection rate	Visible wavelength 400nm~700nm, $\leq 5\%$		
DOL (Depth of layer)	$\geq 8\mu\text{m}$		Orihara FSM-6000
CS (Compressive Stress)	$\geq 300\text{MPa}$		
髒污 Dirt	must be removed easily by wiping		
備註 Remark	<ol style="list-style-type: none"> 1. Storage Condition: 25°C (±10°C), 0-60% humidity, packed in good condition. 2. Storage Period: Not longer than 1 month after in-coming date. 3. The calculation of the defects is $D = (L + W) / 2$. 4. Products are free from Hazardous substances or materials. 5. Inspect quantity: 5pcs for the order more than 5pcs, each piece for the order of 5pcs or less. 6. Inspection standard: ANSI/ASQC Z1.4, Sampling condition: S-4, AQL: 0.65%. 7. Take the glass in the hold of hands. If the flaw can be slightly reflected by the inspection light and the flaw cannot be inspected by the surface which is vertical to eyes, the glass can be identified as flawlessness. 8. Provide COA with each shipment. 		

CHECKING ENVIRONMENT

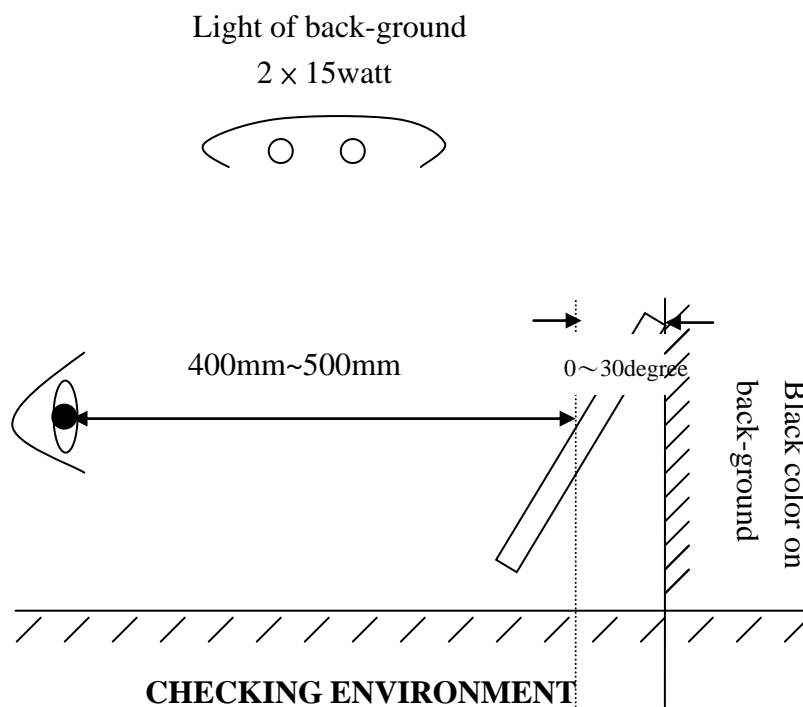
1. Brightness of environment : 1000~1500 lux

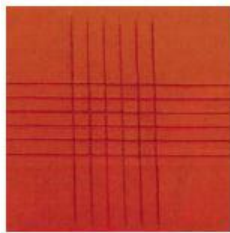
The light supplies above the position between glass and inspector

2. Distance from inspector : 40~50cm between glass and inspector's eyes

3. Checking angle : 0 to 30 degree for the direction of glass

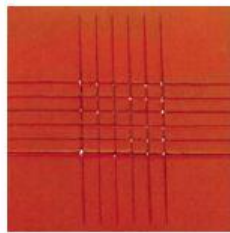
4. Proving time : 10~15 seconds





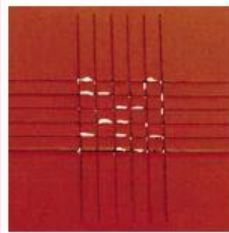
ISO class 0
ASTM class 5B

The edges of the cuts are completely smooth, none of the squares of the lattice is detached.



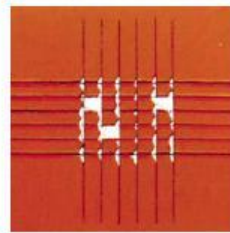
ISO class 1
ASTM class 4B

Small flakes of the coating are detached at intersections, less than 5% of the area is affected.



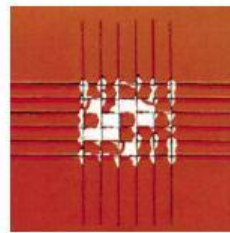
ISO class 2
ASTM class 3B

Small flakes of the coating are detached along edges and at intersections of cuts. The area affected is 5% to 15% of the lattice.



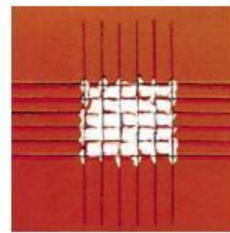
ISO class 3
ASTM class 2B

The coating has flaked along the edges and on parts of the squares. The area affected is 15% to 35% of the lattice.



ISO class 4
ASTM class 1B

The coating has flaked along the edges of cuts in large ribbons and whole squares have detached. The area affected is 35% to 65% of the lattice.



ISO class 5
ASTM class 0B

The coating has flaked along the edges of cuts in large ribbons and whole squares have detached, more than 65% of the area is affected.